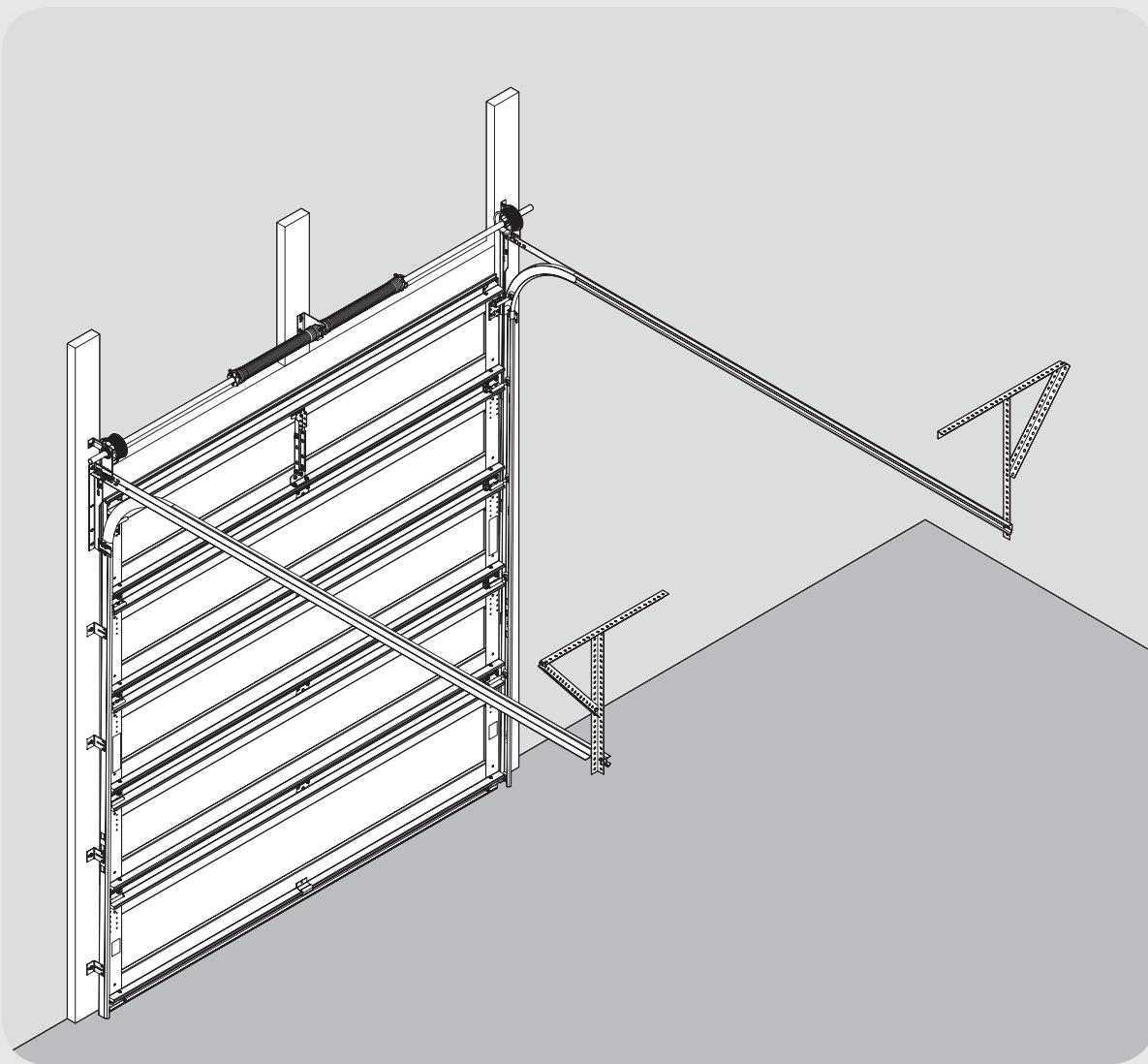




6100 Light Commercial Door

Torsion Spring

Installation Instructions and Owner's Manual



IMPORTANT NOTICE!

Read these instructions carefully before attempting installation. If in question about any of the procedures, do not perform the work. Instead, have a trained door systems technician do the installation or repairs.

Wayne-Dalton Corp.
P.O. Box 67
Mt. Hope, OH 44660
www.wayne-dalton.com

Table of Contents

Important Safety Instructions	2
Package Contents	3-4
Door Section Identification	4
Tools Required	5
Pre-Installation	5-6
Removing The Old Door	5
Preparing The Opening	6
Installation	7-20
Optional Installations	20-22
Side Lock	21
Pull Rope	21
Trolley Operator	22
Maintenance	22-23
Cleaning	22
Painting Instructions	23
Dealer Locator Information	23
Warranty	24

Definition of key words used in this manual:

WARNING

INDICATES A POTENTIALLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN SEVERE OR FATAL INJURY.

CAUTION: PROPERTY DAMAGE OR INJURY CAN RESULT FROM FAILURE TO FOLLOW INSTRUCTIONS.

IMPORTANT: REQUIRED STEP FOR SAFE AND PROPER DOOR OPERATION.

NOTE: Information assuring proper installation of the door.

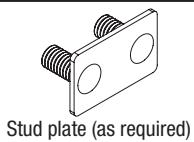
 **WARNING** **TO AVOID POSSIBLE INJURY, READ THESE INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING INSTALLATION. IF IN QUESTION ABOUT ANY OF THE PROCEDURES, DO NOT PERFORM THE WORK. INSTEAD, HAVE A TRAINED DOOR SYSTEMS TECHNICIAN DO THE INSTALLATION OR REPAIRS.**

1. **READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS.**
2. Wear protective gloves during installation to avoid possible cuts from sharp metal edges.
3. It is always recommended to wear eye protection when using tools, otherwise eye injury could result.
4. Avoid installing your new door on windy days. Door could fall during the installation causing severe or fatal injury.
5. Doors 12'- 0" wide and wider should be installed by two persons, to avoid possible injury.
6. Operate door ONLY when it is properly adjusted and free from obstructions.
7. If a door becomes hard to operate, inoperative or is damaged, immediately have necessary adjustments and/or repairs made by a trained door system technician using proper tools and instructions.
8. DO NOT stand or walk under a moving door, or permit anybody to stand or walk under an electrically operated door.
9. DO NOT place fingers or hands into open section joints when closing a door. Use lift handles/gripping points when operating door manually.
10. DO NOT permit children to operate garage door or door controls. Severe or fatal injury could result, should the child become entrapped between the door and the floor.
11. Due to constant extreme spring tension, DO NOT attempt any adjustment, repair or alteration to any part of the door, especially to springs, spring brackets, bottom corner brackets, red colored fasteners, cables or supports. To avoid possible severe or fatal injury, have any such work performed by a trained door systems technician using proper tools and instructions.
12. On electrically operated doors, pull down ropes must be removed and locks must be removed or made inoperative in the open (unlocked) position.
13. Top section of door may need to be reinforced when attaching an electric opener. Check door and/or opener manufacturer's instructions.
14. VISUALLY inspect door and hardware monthly for worn and or broken parts. Check to ensure door operates freely.
15. Test electric opener's safety features monthly, following opener manufacturer's instructions.
16. NEVER hang tools, bicycles, hoses, clothing or anything else from horizontal tracks. Track systems are not intended or designed to support extra weight.
16. Avoid installing your door in close proximity to any heat source that may exceed 200°F. Failure to do so, may cause door sections to blister or warp.

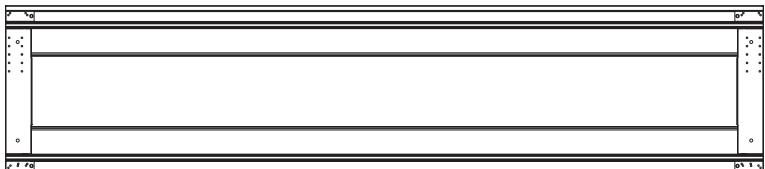
After installation is complete, fasten this manual near garage door.

Package Contents

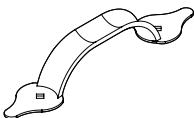
NOTE: DEPENDING ON THE DOOR MODEL, SOME PARTS LISTED WILL NOT BE SUPPLIED IF NOT NECESSARY. REAR SUPPORTS MAY OR MAY NOT BE INCLUDED WITH YOUR DOOR.



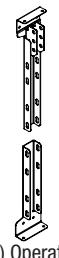
Stud plate (as required)



Door sections (as required)



Pull handles



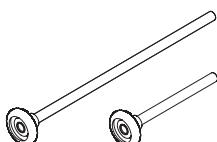
(1) Operator bracket



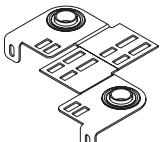
(2) Horizontal Tracks with attached horizontal angle RH/LH



Asymmetrical u-bar
(as required)



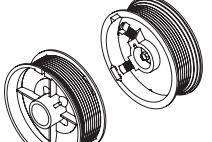
Long and short stem rollers
(as required)



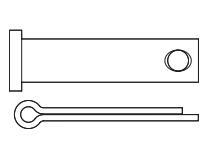
End bearing bracket



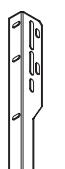
Right and left torsion springs (as required)



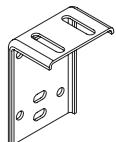
Right and left hand cable drums



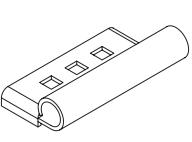
5/16" X 1-1/4" Clevis
pin & cotter pin



(2) Vertical RH/LH
Tracks



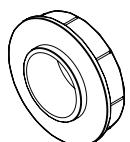
Top bracket bases
(as required)



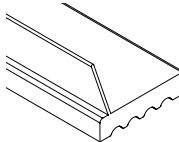
Top bracket slides
(as required)



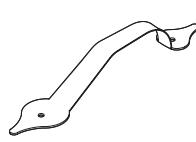
Right and left
counterbalance cables



(1) Center bracket
bushing



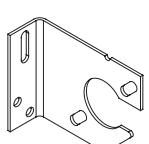
Weather seal and nails
(If included)



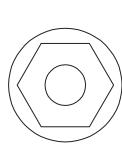
Lift handles



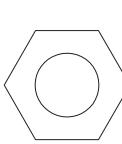
#6 Screw eye and pull rope
(If included)



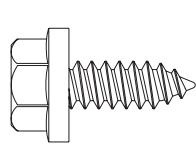
(1) Center bracket



1/4" - 20 Flange hex nuts
(as required)



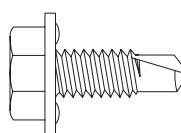
3/8" - 16 Hex nuts
(as required)



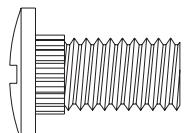
1/4" - 14 X 5/8" Self tapping
screw (as required)



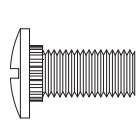
#8 X 1 21/32" Quadrex pan
head screw (As required)



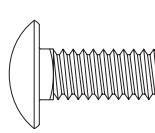
1/4" - 20 X 11/16" Self drilling
screws (as required)



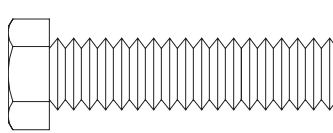
3/8" - 16 X 3/4" Truss
head bolts (as required)



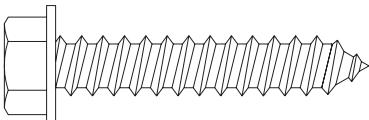
1/4" - 20 X 9/16" Track
bolts (as required)



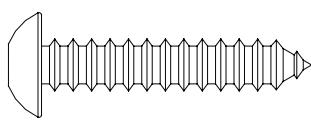
1/4" - 20 X 5/8"
Carriage bolts (as required)



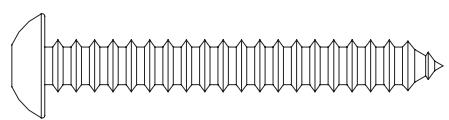
3/8" - 16 X 1-1/2" Hex head bolts
(as required)



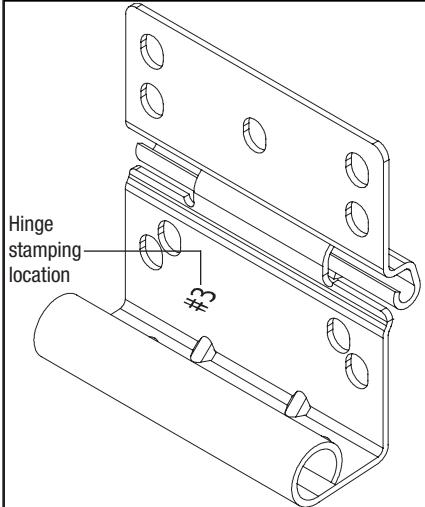
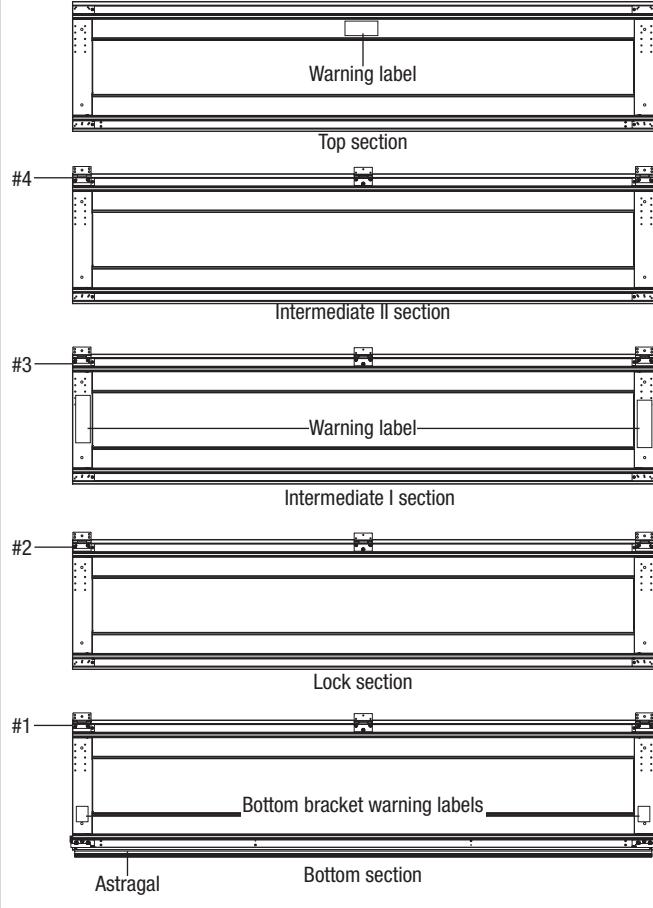
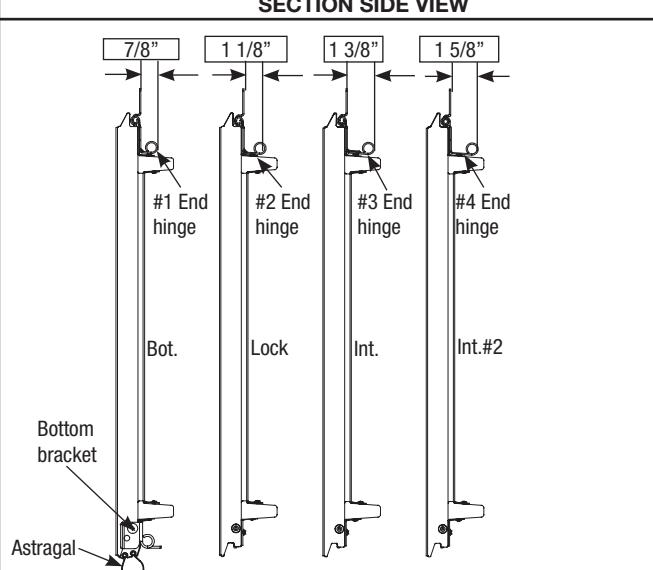
5/16" X 1-5/8" Hex head lag screws
(as required)



5/16" X 1-5/8" Tamper-resistant hex head lag
screws (as required)



5/16" X 2" Tamper-resistant hex head lag
screws (as required)

Door Section Identification													
Tools Needed: Recommended tools from page 5	<p>Hinges are always pre-attached at the top of each section (except top section) and the hinges are stamped for identification (except double wide end hinges), #1, #2, #3, and #4. See view below. The stamp identifies the stacking sequence of the section. The sequence is always determined by #1 being the bottom section to #4 being the highest intermediate section. See views to the right. If the stamp on the end hinge is illegible, or double wide end hinges are installed, refer to the section side view illustration to the right.</p> <p>NOTE: The section side view illustration shows the end hinge profile of all the sections, and can also be used in conjunction with identifying each sections.</p> <p>The BOTTOM SECTION can be identified by #1 end hinges, the factory attached astragal, and by the bottom bracket warning labels on each end stile. This section is always the 1st section from the bottom of the door.</p> <p>The LOCK SECTION can be identified by #2 end hinges. This section is always the 2nd section from the bottom of the door.</p> <p>The INTERMEDIATE I SECTION can be identified by #3 end hinges. Sections will have a warning label attached to either the left or the right end stile of the section. This section is always the 3rd section from the bottom of the door.</p> <p>The INTERMEDIATE II SECTION can be identified by #4 end hinges. This section is always the 4th section from the bottom of the door.</p> <p>The TOP SECTION can be identified with no pre-installed end or center hinges on the section and the warning label attached in the upper middle of the section.</p>												
 <p>TYPICAL HINGE STAMPING LOCATION</p>													
 <p>SECTION SIDE VIEW</p>  <p>STACK HEIGHTS</p> <table border="1"> <thead> <tr> <th>Door Height</th><th>Bottom</th><th>Lock (second)</th><th>Intermediate (third)</th><th>Intermediate II (fourth)</th><th>Top</th></tr> </thead> <tbody> <tr> <td>9'0"</td><td>23.8"</td><td>20.8"</td><td>20.8"</td><td>20.8"</td><td>20.8"</td></tr> </tbody> </table>		Door Height	Bottom	Lock (second)	Intermediate (third)	Intermediate II (fourth)	Top	9'0"	23.8"	20.8"	20.8"	20.8"	20.8"
Door Height	Bottom	Lock (second)	Intermediate (third)	Intermediate II (fourth)	Top								
9'0"	23.8"	20.8"	20.8"	20.8"	20.8"								

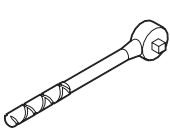
Tools Required



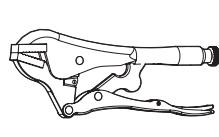
Power drill



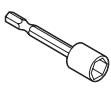
Pencil



Ratchet wrench



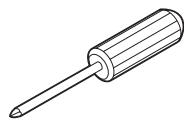
Vice grips



3/8", 7/16" Socket driver



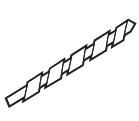
Gloves



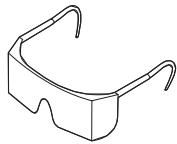
Phillips head screw-driver



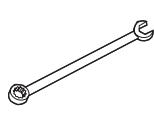
7/16", 1/2" & 9/16" Socket



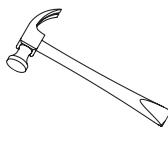
9/32", 1/2", 3/16" & 1/8" Drill bits



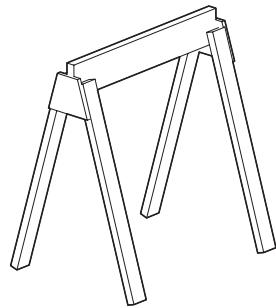
Safety glasses



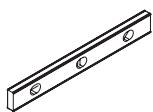
1/4", 3/8", 7/16", 1/2" & 9/16" Wrenches



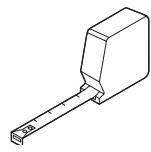
Hammer



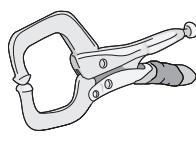
Sawhorse



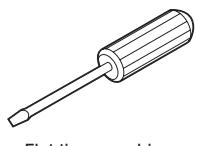
Level



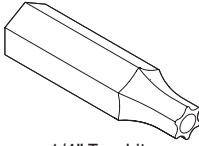
Tape measure



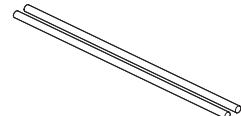
Vice clamps



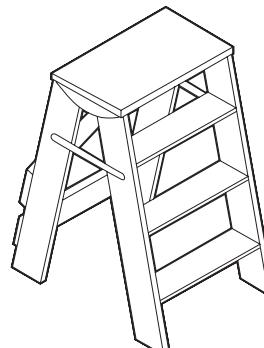
Flat tip screwdriver



1/4" Tork bit



Approved winding bars



Step ladder

P1

Removing An Old Door

IMPORTANT: COUNTERBALANCE SPRING TENSION MUST ALWAYS BE RELEASED BEFORE ANY ATTEMPT IS MADE TO START REMOVING AN EXISTING DOOR.

⚠ WARNING

A POWERFUL SPRING RELEASING ITS ENERGY SUDDENLY CAN CAUSE SEVERE OR FATAL INJURY. TO AVOID INJURY HAVE A TRAINED DOOR SYSTEMS TECHNICIAN, USING PROPER TOOLS AND INSTRUCTIONS, RELEASE THE SPRING TENSION.

For detailed information see supplemental instructions "Removing an Existing Door /Preparing the Opening". These instructions are available at no charge from Wayne-Dalton Corp., P.O. Box 67, Mt. hope, Oh 44660, or at www.wayne-dalton.com.

Tools Needed:

Recommended tools
from
page 5**WARNING**

FAILURE TO SECURELY ATTACH A SUITABLE MOUNTING PAD TO STRUCTURALLY SOUND FRAMING MEMBER COULD CAUSE SPRINGS TO VIOLENTLY PULL MOUNTING PAD FROM WALL, RESULTING IN SEVERE OR FATAL INJURY.

If you just removed your existing door or you are installing a new door, complete all steps in PREPARING THE OPENING.

To ensure secure mounting of track brackets, side and center bearing brackets, or steel angles to new or retro-fit construction, it is recommended to follow the procedures outlined in DASMA Technical Data Sheets #156, #161 and #164 at www.dasma.com.

The inside perimeter of your garage door opening should be framed with wood jamb and header material. The jambs and header must be securely fastened to sound framing members. It is recommended that 2" x 6" lumber be used. The jambs must be plumb and the header level. The jambs should extend a minimum of 14" (356 mm) above the top of the opening for Torsion spring applications. For low headroom applications, the jambs should extend to the ceiling height. Minimum side clearance required, from the opening to the wall, is 3-1/2" (89 mm).

IMPORTANT: CLOSELY INSPECT EXISTING JAMBS, HEADER AND MOUNTING SURFACE. ANY WOOD FOUND NOT TO BE SOUND, MUST BE REPLACED.

For Torsion spring applications, a suitable mounting surface must be firmly attached to the wall, above the header at the center of the opening. The mounting surface must be 2" x 6" lumber minimum (Select southern yellow pine lumber. Do not use lumber marked as spruce-pine-fir or SPF). The mounting surface must be securely attached to the wall with four (4) 3/8" anchors for masonry constructions or four (4) 5/16" x 4" lag screws for wood construction.

NOTE: Drill a 3/16" pilot hole in the mounting surface to avoid splitting the lumber. Do not attach the mounting surface with nails.

Weather Seal (May Not Be Included):

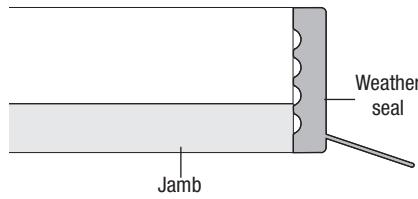
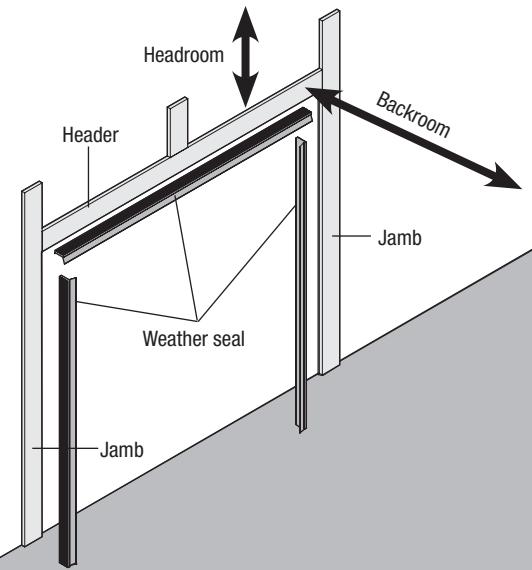
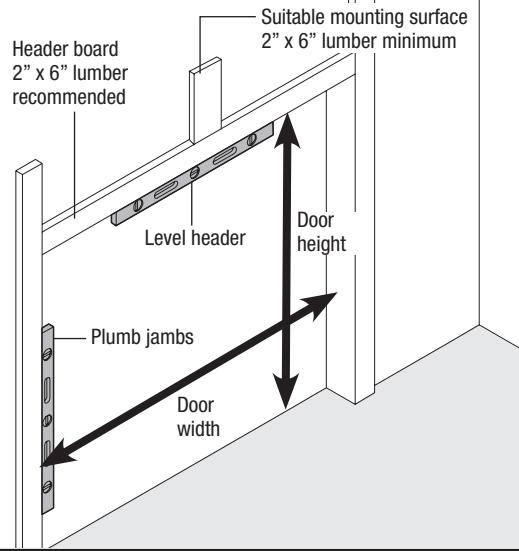
Cut the weather seal if necessary to fit the header and jambs.

Align the header seal with the inside edge of the header and temporarily secure it to the header with equally spaced nails. Next, fit the jamb seals up tight against the header seal and flush with the inside edge of the jamb. Temporarily secure the jamb seals with equally spaced nails approximately 12" to 18" apart. This will keep the bottom section from falling out of the opening during installation.

NOTE: Do not permanently attach weather seal to the jamb at this time.

HEADROOM REQUIREMENT: Headroom is defined as the space needed above the top of the door for tracks, springs, etc. to allow the door to open properly. If the door is to be motor operated, 2-1/2" (64 mm) of additional headroom is required.

BACKROOM REQUIREMENT: Backroom is defined as the distance needed from the opening back into the garage to allow the door to open fully.

**HEADROOM REQUIREMENT**

Track type	Torsion springs
12" Radius track	12 1/2"
15" Radius track	14-1/2"

BACKROOM REQUIREMENT

DOOR HEIGHT	TRACK	MANUAL LIFT	MOTOR OPERATED
9'0"	12", 15" Radius	126"	168"

Installation

Begin the installation of the door by checking the opening. It must be the same size as the door. Vertical jambs must be plumb and level with header. Side clearance, from edge of door to wall, must be a minimum of 3-1/2" (89mm) on each side.

IMPORTANT: STAINLESS STEEL OR PT 2000 COATED LAG SCREWS **MUST** BE USED WHEN INSTALLING CENTER BEARING BRACKETS, END BRACKETS, JAMB BRACKETS, OPERATOR MOUNTING/SUPPORT BRACKETS AND DISCONNECT BRACKETS ON TREATED LUMBER (PRESERVATIVE-TREATED). STAINLESS STEEL OR PT 2000 COATED LAG SCREWS ARE **NOT** NECESSARY WHEN INSTALLING PRODUCTS ON UN-TREATED LUMBER.

IMPORTANT: WHEN INSTALLING 5/16" DIAMETER LAG SCREWS USING AN ELECTRIC DRILL/DRIVER, THE DRILL/DRIVER'S CLUTCH MUST BE SET TO DELIVER NO MORE THAN 200 IN. LBS. OF TORQUE. FASTENER FAILURE COULD OCCUR AT A HIGHER SETTING.

NOTE: It is recommended that 5/16" lag screws be pilot drilled using a 3/16" drill bit, prior to fastening.

1

Lift Handle Installation

Tools Needed:
Tape Measure
Pencil
Power Drill
1/16" Drill Bit

NOTE: For door section identification see page 4.

NOTE: Use reference illustrations below for lift handles positions on singles and double car garage.

Measure the width of the center stile which will receive the lift handle(s). Divide that measurement in half and mark a vertical line on the center of the stile.

If you are installing two lift handles on the stile, you will need to measure from the edge of the center stile to the center line mark. Divide that measurement in half and draw a second and third vertical line parallel to the previously made center line mark.

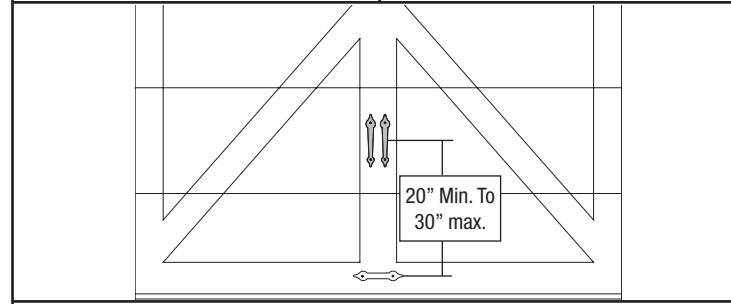
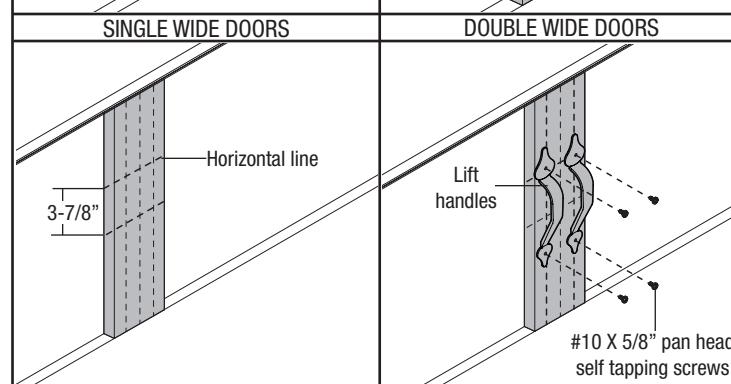
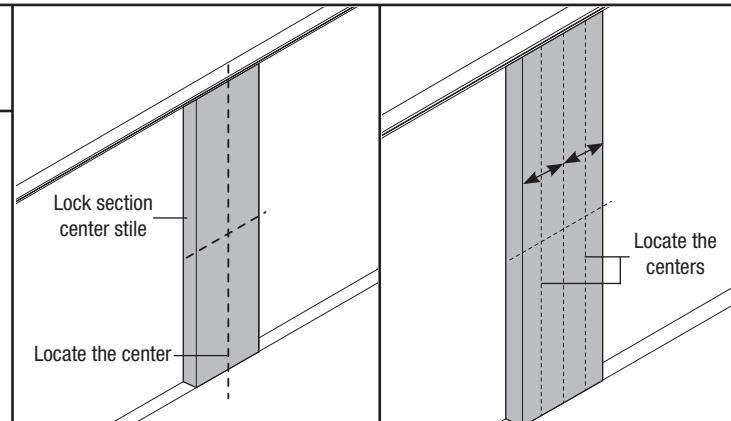
Measure the height of the panel. Divide that measurement in half and mark a horizontal line, intersecting the vertical line(s) previously marked. Measure up 3 7/8" from the intersecting line(s) and mark another horizontal line.

Use the point(s) where the top horizontal line intersects the vertical line(s) to locate the top hole of the lift handle(s).

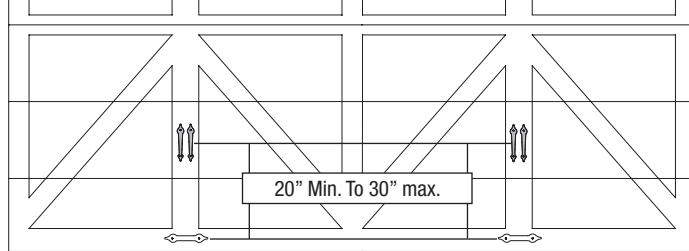
Using the lift handle as a template, mark this location on the stile. Keeping the carriage handle aligned on the vertical line, mark the lower carriage handle hole on the stile.

Drill a 1/16" pilot hole, then fasten both lift handles using #10 X 5/8" pan head self tapping screws.

If the door came with two sets of lift handles repeat process.



Lift handle placement reference on single wide doors



Lift handle placement reference on double wide doors

2

Pull Handle Installation

Tools Needed:
 Tape Measure
 Pencil
 Power Drill
 1/16" Drill Bit

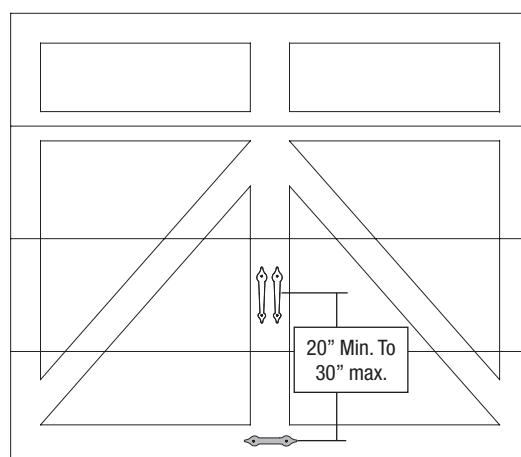
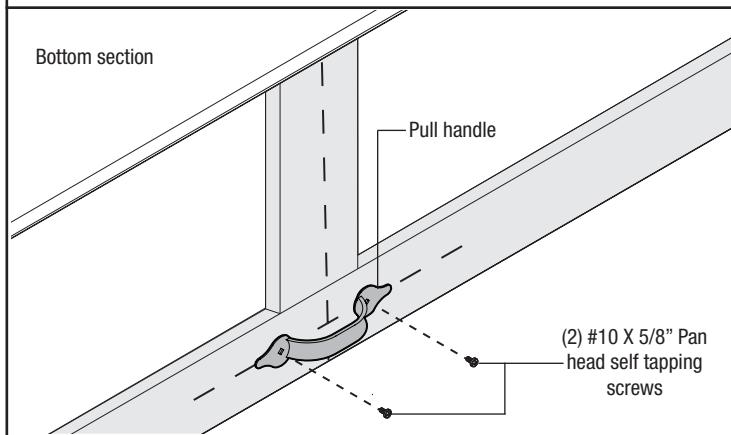
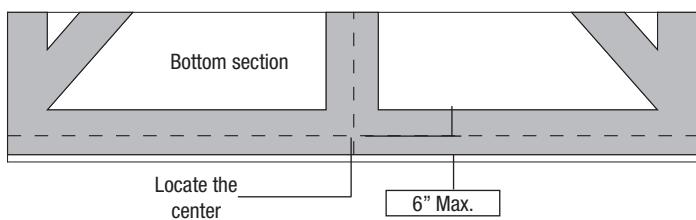
NOTE: For door section identification see page 4.

Locate and mark the horizontal and vertical center on the bottom rail of the bottom section, on single car doors.

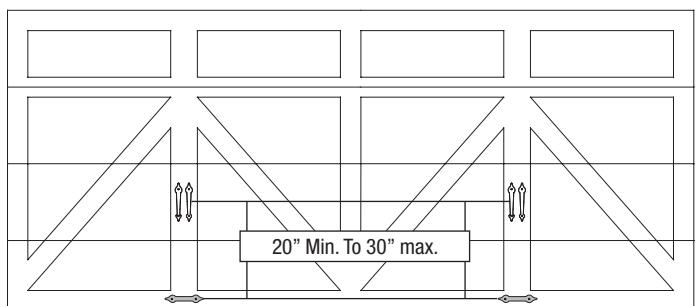
Center the pull handle using the vertical and horizontal lines as reference on the bottom section rail as shown. Using the pull handle as a template, mark the two holes in the pull handle on the horizontal line of the bottom section rail. Drill a 1/16" pilot hole, then fasten pull handles using (2) #10 X 5/8" pan head self tapping screws.

If the door came with two pull handles, locate them directly below the lift handles and repeat installation process.

Use reference illustrations below for lift handles positions on singles and double car garage doors.



Pull handle placement reference on single wide doors



Pull handle placement reference on double wide doors

3

Counterbalance Cables

Tools Needed:
None

IMPORTANT: RIGHT AND LEFT HAND IS ALWAYS DETERMINED FROM INSIDE THE BUILDING LOOKING OUT.

NOTE: For door section identification see page 4.

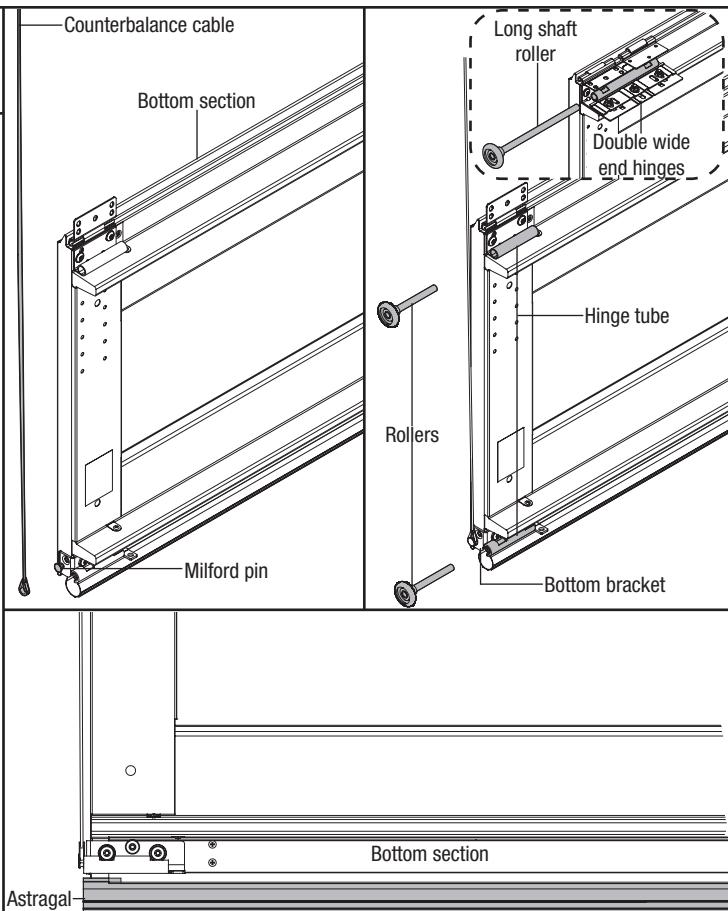
⚠ WARNING

FAILURE TO ENSURE TIGHT FIT OF CABLE LOOP OVER MILFORD PIN COULD RESULT IN CABLE COMING OFF THE PIN, ALLOWING THE DOOR TO FALL, POSSIBLY RESULTING IN SEVERE OR FATAL INJURY.

Uncoil the counterbalance cables and slip the loop at the ends of the cables over the milford pins on the bottom section. Insert a short shaft roller in the bottom bracket on the bottom section and another short shaft roller in the #1 end hinge at the top of the bottom section. Repeat for other side.

NOTE: Larger doors will use long shaft rollers with double wide end hinges.

NOTE: Verify astragal (bottom seal) is aligned with door section. If there is more than 1/2" excess astragal on either side, trim astragal even with door section.

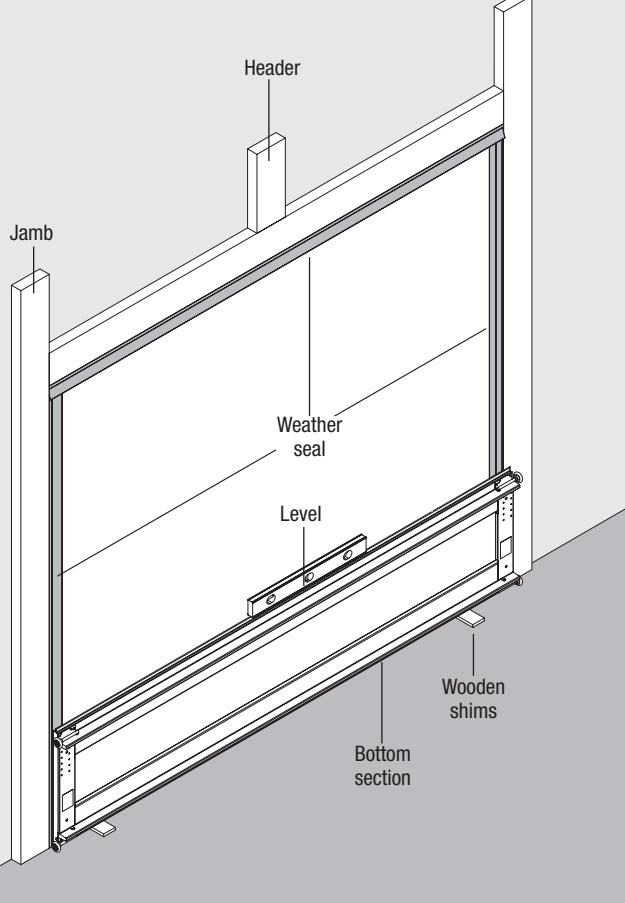


4

Bottom Section

Tools Needed:
Level
Wood Shims

Center the bottom section in the door opening. Level section using wooden shims under the bottom astragal if necessary. Hold the section in the opening while attaching vertical tracks.



5

Vertical Track

Tools Needed:

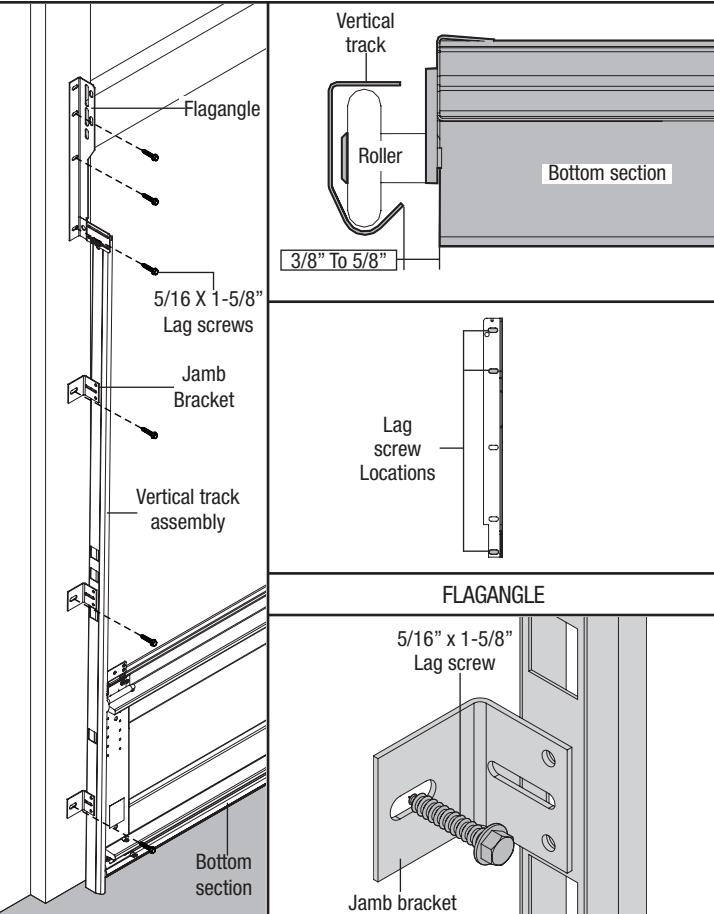
- 3/16" Drill Bit
- Power Drill
- 7/16" Socket Driver
- Tape Measure
- Level
- Step Ladder

IMPORTANT: THE TOPS OF THE VERTICAL TRACKS MUST BE LEVEL FROM SIDE TO SIDE. IF THE BOTTOM SECTION WAS SHIMMED TO LEVEL IT, THE VERTICAL TRACK ON THE SHIMMED SIDE, MUST BE RAISED THE HEIGHT OF THE SHIM.

Position the left hand vertical track assembly over the rollers of the bottom section. Make sure the counterbalance cable is located between the rollers and the door jamb. Drill 3/16" pilot holes for the lag screws.

Loosely fasten jamb brackets and flagangle to the jamb using 5/16" x 1-5/8" lag screws. Tighten lag screw securing bottom jamb bracket to jamb, to maintain 3/8" to 5/8" spacing. Hang counterbalance cable over flagangle.

Repeat for the right hand side.



6

Stacking Sections

Tools Needed:

- Power Drill
- 7/16" Socket Driver

NOTE: For door section identification see page 4.

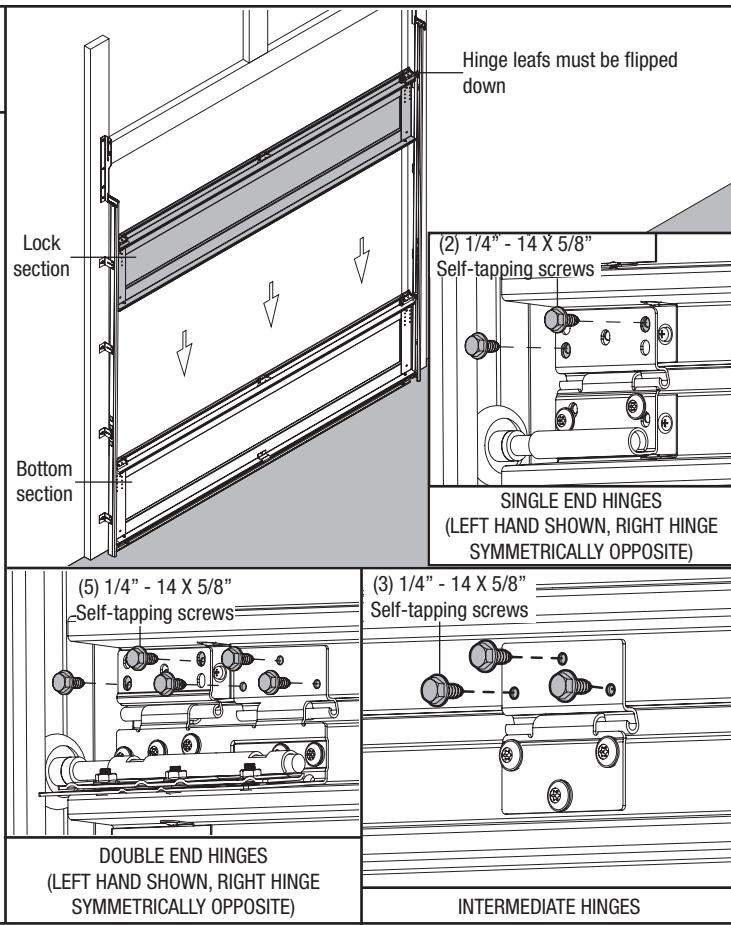
NOTE: Make sure hinges leafs are flipped down, when stacking another section on top.

NOTE: Larger doors will use long shaft rollers with double wide end hinges.

Place rollers in hinge tubes of the second section (lock section). With assistance, lift second section and guide rollers into the vertical tracks. Keep sections aligned and fasten hinges to connect the sections using 1/4" - 14 x 5/8" self-tapping screws. Repeat for other section(s) except top section.

IMPORTANT: PUSH & HOLD THE HINGE LEAFS AGAINST SECTION WHILE SECURING WITH 1/4" - 14 X 5/8" SELF-TAPPING SCREWS. END HINGES HAVE (2) SCREWS AND INTERMEDIATE HINGES HAVE (3) SCREWS. DOUBLE END HINGES HAVE (5) SCREWS.

NOTE: Install lock at this time (sold separately) see instructions in OPTIONAL SIDELOCK INSTALLATION on page 21.



Top Brackets

Tools Needed:
Power Drill
7/16" Socket
Driver
Phillips Head
Screwdriver

To install the L-shaped top brackets, align the top holes in the top bracket base with the second set of holes in the endcap of the top section.

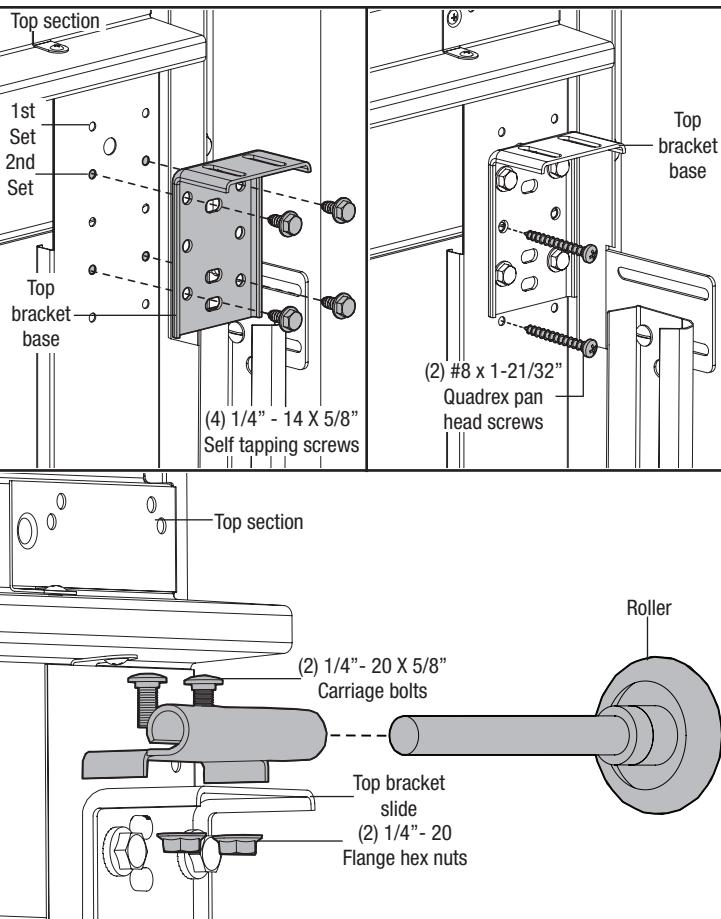
Fasten using (4) 1/4" - 14 x 5/8" self tapping screws. Secure the top bracket slide to the bracket base loosely using (2) 1/4" - 20 x 5/8" carriage bolts and (2) 1/4" - 20 flanged hex nuts.

Fasten (2) #8 x 1-21/32" Quadrex Pan Head screws, one in the middle hole of the top bracket base, the other in the corresponding hole below the top bracket base.

The bracket will be tightened and adjusted in Step 12.

Insert rollers into top bracket slide.

Repeat for other side.



U-Bar - Asymmetrical

Tools Needed:
Power Drill
7/16" Socket Driver

NOTE: For door section identification see page 4.

IF YOU HAVE DOOR WIDTHS 8'0" - 10'0":

Doors will be supplied with (1) 3" asymmetrical u-bar for the top sections. Make sure the placement is correct by checking it with the illustrations shown.

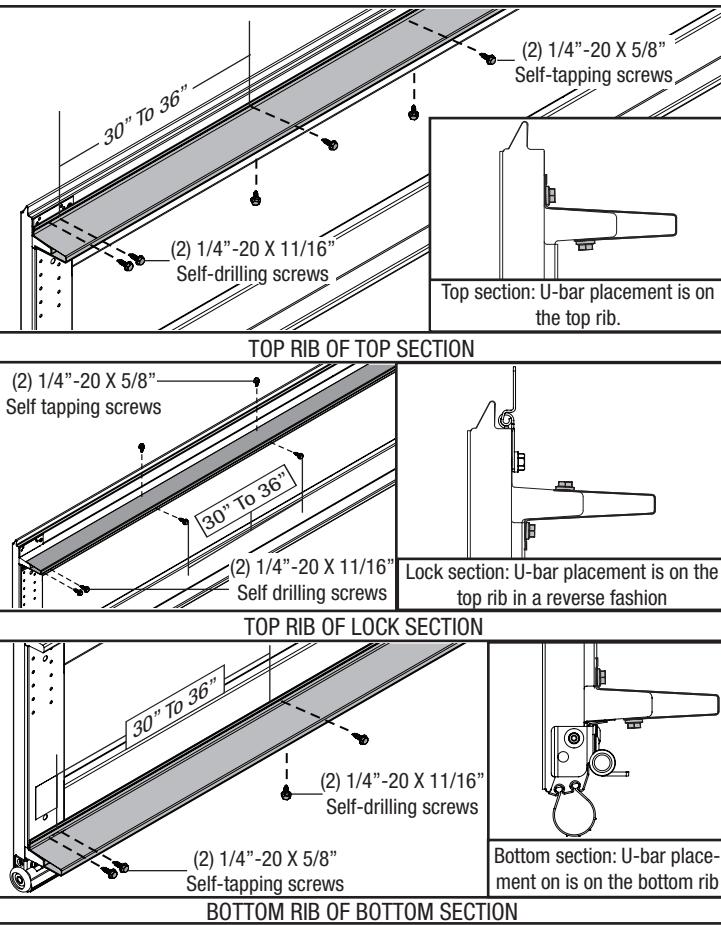
IF YOU HAVE DOOR WIDTHS 12'0" - 18'0":

Doors will be supplied with (3) 3" asymmetrical u-bars for the top, intermediate II, lock, and bottom sections. Placement of the u-bar is different for each section. Make sure the placement is correct by checking it with the illustrations shown.

Place the 3" asymmetrical u-bar over the top rib of the top, intermediate II and lock section and the bottom rib of the bottom section. Fasten each end of the u-bar to the endstile with (2) 1/4" - 20 x 11/16" self drilling screws.

Fasten center of the u-bar as shown to the rib using (2) 1/4" - 14 x 5/8" self tapping screws 6" off of the center of the door section. Fasten both walls of the u-bar as shown using 1/4" - 14 x 5/8" self tapping screws every 30 - 36 inches.

Approximately 18 self tapping screws per 18' u-bar.



9

Adjustable Operator
Bracket Installation

Tools Needed:

Power Drill

7/16" Socket Driver

7/16" Wrench

IMPORTANT! WHEN CONNECTING A TROLLEY TYPE GARAGE DOOR OPENER TO THIS DOOR, A WAYNE-DALTON OPENER/TROLLEY BRACKET MUST BE SECURELY ATTACHED TO THE TOP SECTION OF THE DOOR, ALONG WITH ANY U-BARS PROVIDED WITH THE DOOR. THE INSTALLATION OF THE OPENER MUST BE ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND FORCE SETTINGS MUST BE ADJUSTED PROPERLY.

Place the top half of the operator bracket inside the bottom half and hold flush against the inside of the top section (as shown). Adjust the top / bottom halves out against the U-bar and bottom rib; loosely secure both halves together with (4) 1/4" - 20 x 5/8" carriage bolts and nuts.

NOTE: Install the track bolts as far apart as possible (as shown), when fastening the top / bottom halves together.

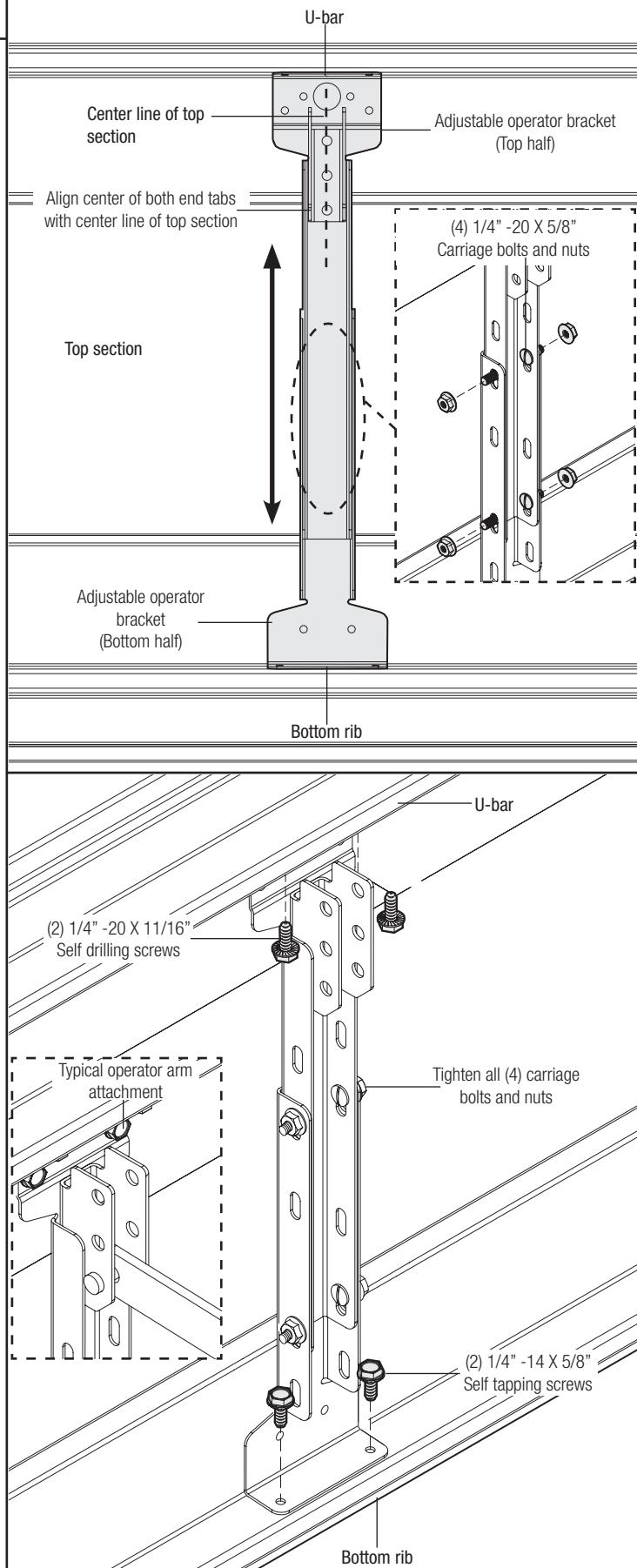
NOTE: For retro fit applications, the adjustable operator bracket must be aligned with the existing operator.

Locate the center of the top section and align the center of both end tabs of the adjustable operator bracket with the sections center line; align the adjustable operator bracket vertically.

To attach the adjustable operator bracket:

Attach the operator bracket to the U-bar with (2) 1/4" - 20 x 11/16" self drilling screws and the bottom rib with (2) 1/4" - 14 x 5/8" self tapping screws (as shown).

Now tighten all (4) previously installed carriage bolts and nuts.



10

Top Section

Tools Needed:
 Hammer
 Tape Measure
 Power Drill
 7/16" Socket Driver
 Step Ladder

Place the top section in the opening and vertically align with lower sections.

Temporarily secure the top section by driving a nail in the header near the center of the door and bending it over the top section. Now flip up hinge leaf against section, fastening center hinges first, and end hinges last. (Refer to Step 6).

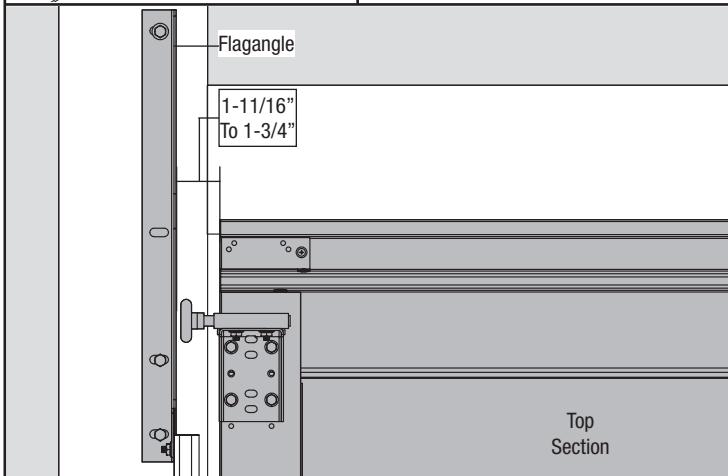
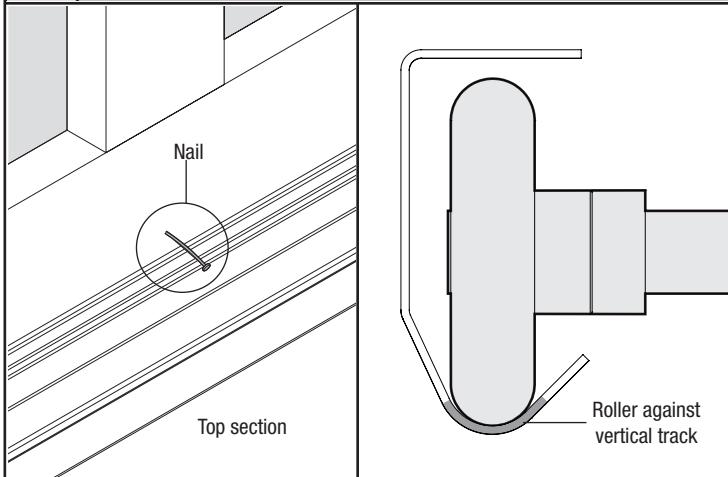
When installing a door with a Torquemaster® Plus counterbalance system, vertical track alignment is critical. Position flagangle between 1-11/16" (43 mm) to 1-3/4" (44 mm) from the edge of the door. Tighten the bottom lag screw. Flagangles must be parallel to the door sections.

Repeat for opposite side.

IMPORTANT: THE DIMENSION BETWEEN THE FLAGANGLES MUST BE DOOR WIDTH PLUS 3-3/8" (86MM) TO 3-1/2" (89 MM) FOR SMOOTH, SAFE DOOR OPERATION.

Complete the vertical track installation by securing the center jamb bracket(s) and tightening the other lag screws. Push the vertical track against the rollers so that the rollers are touching the deepest part of the curved side of the track (see illustration); tighten all the track bolts and nuts.

Repeat for opposite side.



11

Attaching Horizontal Track to Adjustable Flagangles

Tools Needed:

- 9/16" Socket
- Ratchet Wrench
- 9/16" Wrench
- Level
- 7/16" Socket
- Step Ladder

To install horizontal track, place the curved end over the top roller. Align the bottom of the horizontal track with the vertical track. Hand tighten the horizontal track to the flagangle with (2) 1/4"-20 x 9/16" track bolts and (2) 1/4"-20 flange hex nuts.

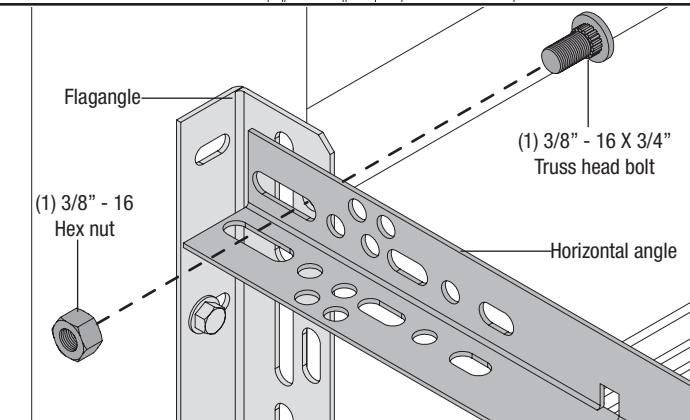
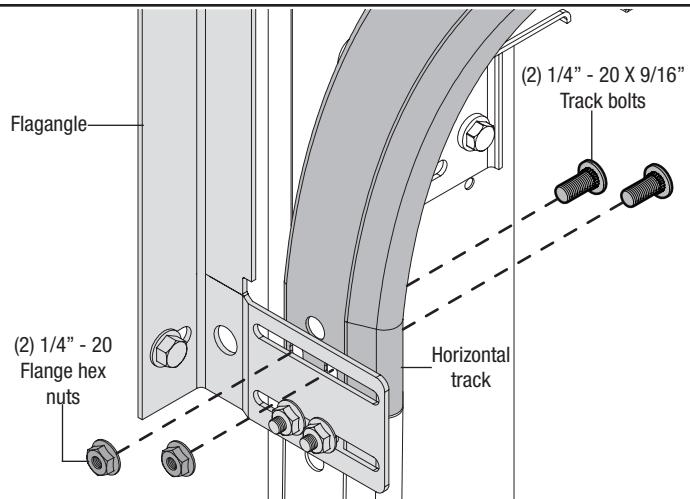
⚠️ WARNING

DO NOT RAISE DOOR UNTIL HORIZONTAL TRACKS ARE SECURED AT REAR, AS OUTLINED IN STEP 20, OR DOOR COULD FALL FROM OVERHEAD POSITION CAUSING SEVERE OR FATAL INJURY.

Level the horizontal track assembly and bolt the horizontal angle to the slot in the flagangle using (1) 3/8"-16 x 3/4" truss head bolt and (1) 3/8"-16 hex nut. Repeat for other side.

Remove the nail that was temporarily holding the top section in place, installed in Step 10.

IMPORTANT: FAILURE TO REMOVE NAIL BEFORE ATTEMPTING TO RAISE DOOR COULD CAUSE PERMANENT DAMAGE TO TOP SECTION.



12

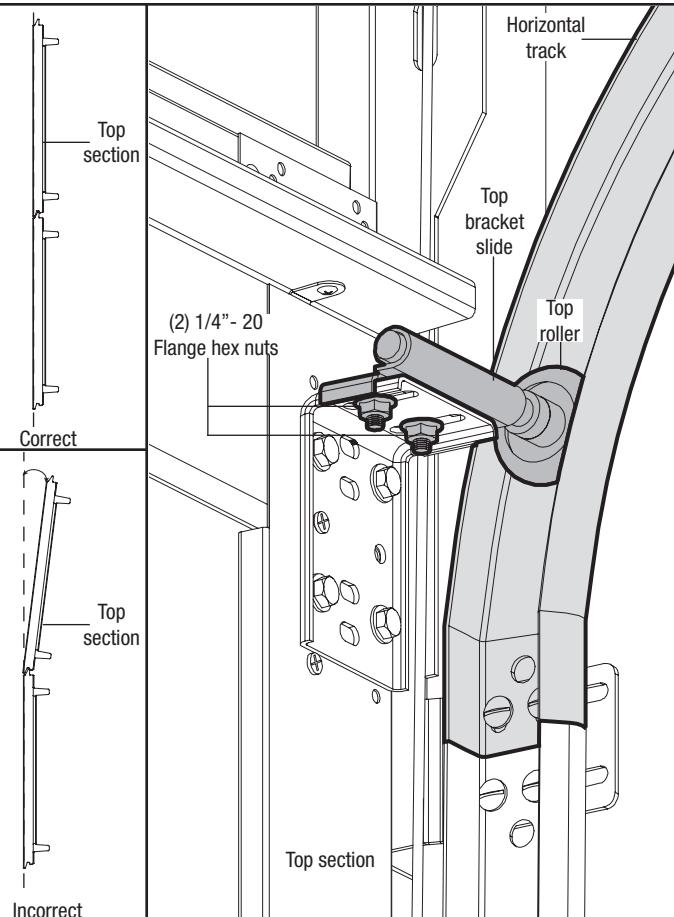
Adjusting Top Brackets

Tools Needed:

- 7/16" Wrench
- Step Ladder

With horizontal tracks installed, you can now adjust the top brackets. Vertically align the top section of the door with the lower sections. Once aligned, position the top bracket slide, out against the horizontal track.

Maintaining the slide's position, tighten the (2) 1/4"-20 flange hex nuts to secure the top roller slide to the top bracket base.



13

Torsion End Bearing Brackets

Tools Needed:
 Step Ladder
 Power Drill
 Ratchet Wrench
 7/16" Socket Driver
 9/16" Socket Driver
 9/16" Wrench

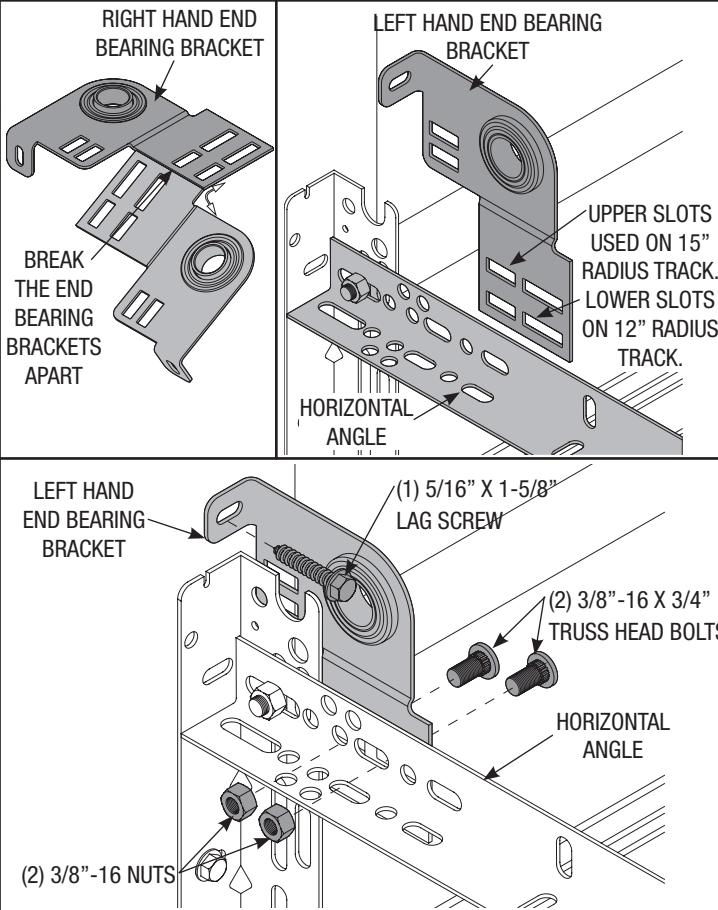
End bearing brackets are right and left hand. Break the end bearing brackets apart.

Starting on the left hand side and using the upper slots in the end bearing bracket, position above the flagangle and secure the end bearing bracket to the horizontal angle using (2) 3/8"-16 x 3/4" truss head bolts and (2) 3/8"-16 nuts.

IMPORTANT: END BEARING BRACKETS MUST BE ATTACHED THROUGH THE LOWER SLOTS ON 12" RADIUS TRACK. 15" RADIUS TRACK MUST USE THE UPPER SLOTS ON THE BRACKET.

Once the bracket is secured to the horizontal angle, secure the top of the end bearing bracket to the jamb using (1) 5/16" x 1-5/8" lag screw. Repeat for right hand side.

NOTE: Right and left hand is always determined from inside the building looking out.



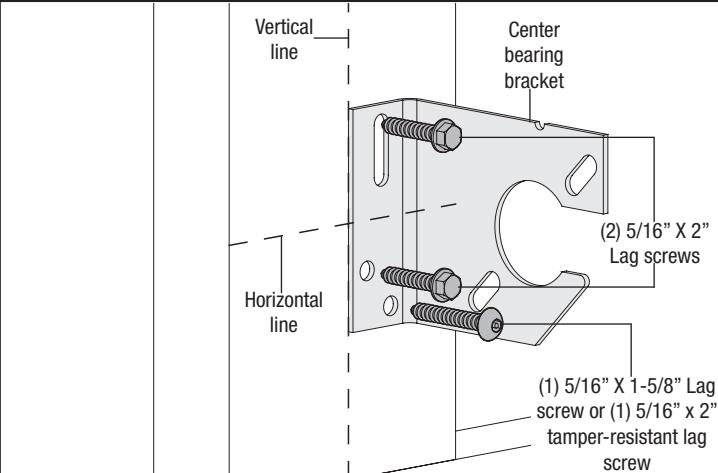
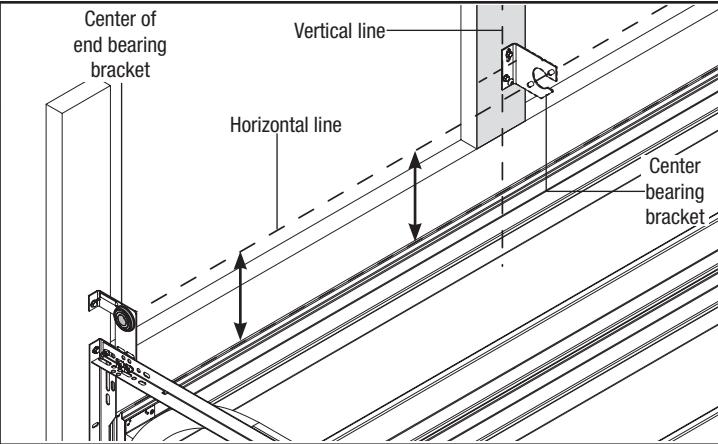
14

Center Bearing Bracket

Tools Needed:
 Power Drill
 7/16" Socket Driver
 Level
 Tape Measure
 Pencil
 1/4" Torx Bit
 Step Ladder

Measure to locate the center of the door and mark a vertical pencil line on the mounting surface above the door, to indicate the center line of the door. Then, measure from the center of the bearing, in one of the end bearing brackets, DOWN to the top of the door. Using that dimension, measure UP from the top of the door and mark a horizontal pencil line on the mounting surface, intersecting the vertical pencil line. Now align the edge of the center bearing bracket along the vertical pencil line on the mounting surface. Center the bearing bracket on the horizontal line. This will ensure the torsion tube is level between the center and end bearing brackets. Attach the center bearing bracket, in this location, to the mounting surface, using (2) 5/16" x 1-5/8" lag screws and (1) 5/16" x 2" tamper-resistant lag screw.

IMPORTANT: USE THE 5/16" X 1 5/8" TAMPER-RESISTANT LAG SCREW ONLY IF MOUNTING SURFACE MOUNTED OVER MASONRY. TAMPER-RESISTANT LAG SCREW MUST BE ATTACHED THROUGH THE BOTTOM HOLE OF THE CENTER BEARING BRACKET.



15

Torsion Spring Assembly

Tools Needed:
Step Ladder

IMPORTANT: RIGHT AND LEFT HAND IS ALWAYS DETERMINED FROM INSIDE THE BUILDING LOOKING OUT.

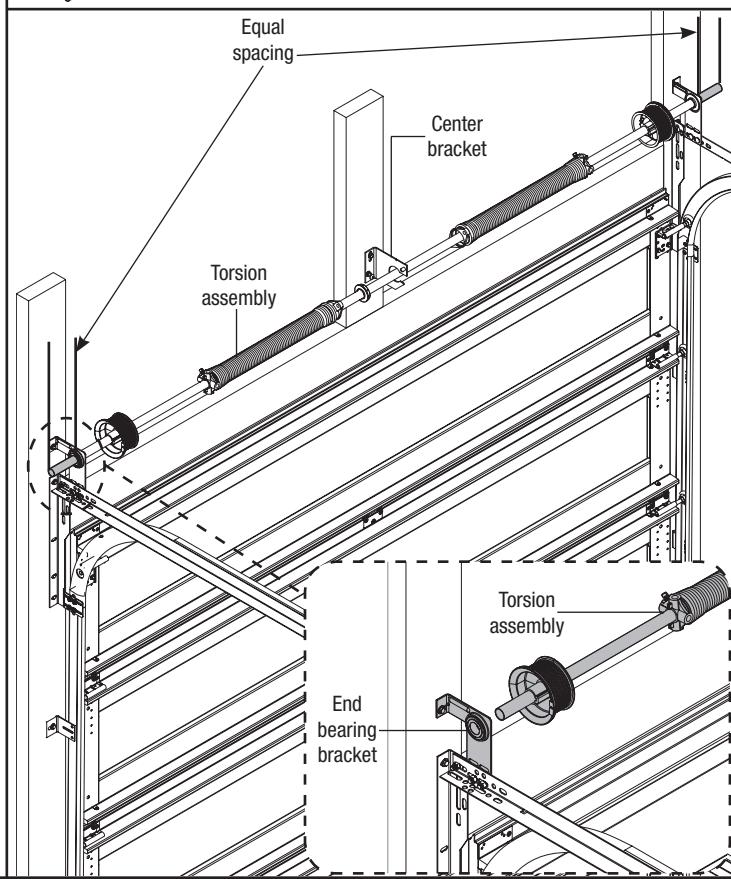
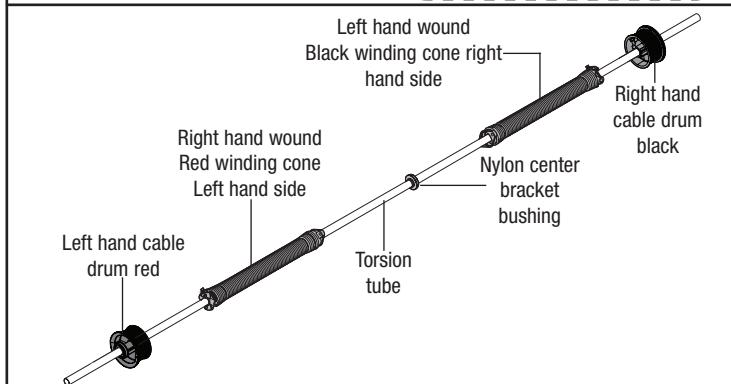
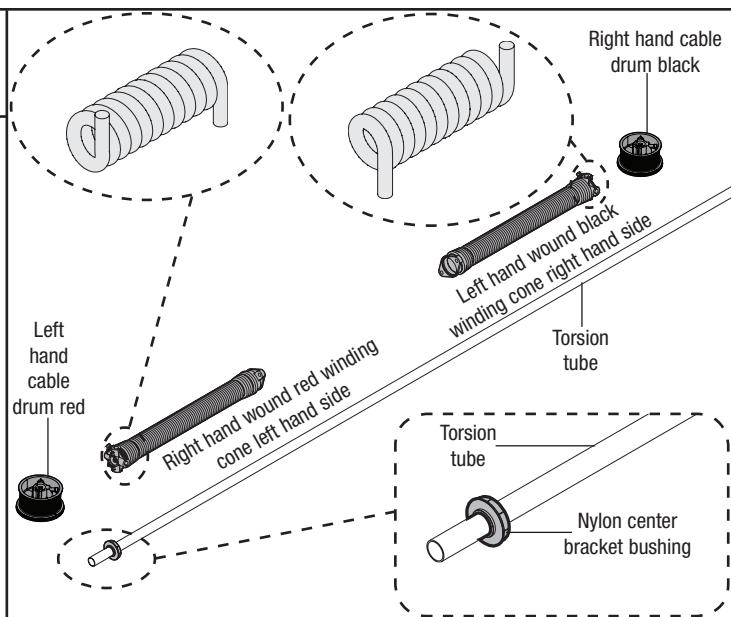
NOTE: Identify the springs provided as either right hand wound (red winding cone), which goes on the LEFT HAND SIDE or left hand wound (black winding cone), which goes on the RIGHT HAND SIDE.

Facing the inside of the door, lay the torsion tube on the floor. Lay the spring with the black color coded winding cone and the black color coded cable drum, at the right hand end of the tube. Lay the spring with the red color coded winding cone and the red color coded cable drum, at the left hand end of the tube.

NOTE: The set screws used on all torsion counterbalance winding cones and cable drums, are now colored red. DO NOT identify right and left hand by the set screw color.

Slide the nylon center bushing onto the torsion tube followed by the springs and cable drums. The nylon center bushing, springs and cable drums must be positioned, as shown.

With assistance, pick up the torsion assembly and slide one end of the tube through one end bearing bracket. Lay the torsion tube into the center bearing bracket and slide the other end of the tube into the opposite end bearing bracket. Position the torsion tube so that equal amounts of the tube extend from each end bearing bracket.



16

Nylon Center Bushing

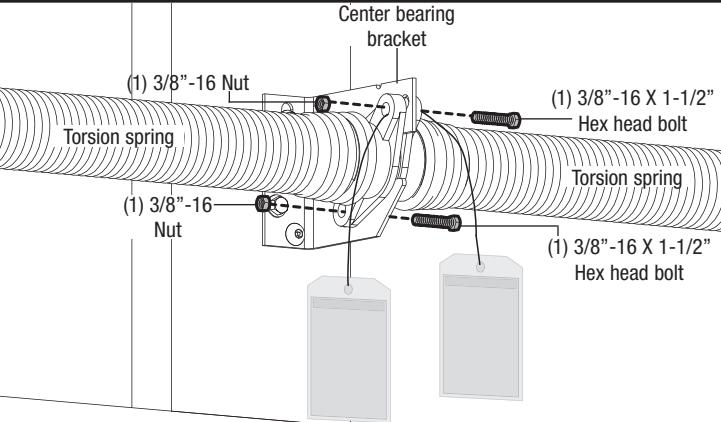
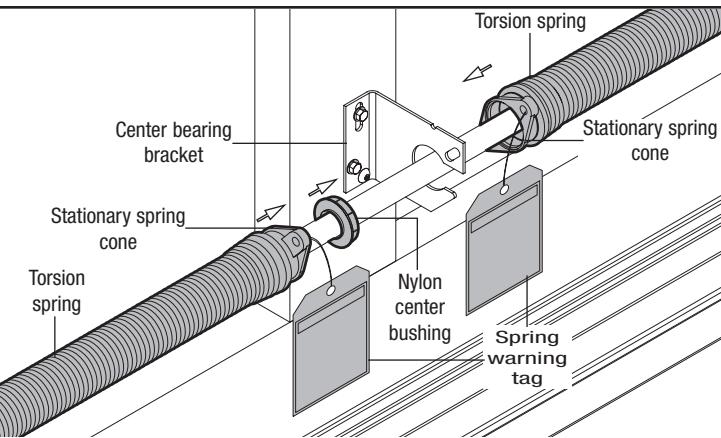
Tools Needed:

- Step Ladder
- 9/16" Socket
- Ratchet Wrench
- 9/16" Wrench
- Step Ladder

Slide the nylon center bushing into the stationary spring cone at the end of the spring and align the stationary spring cone(s) with the holes in the center bearing bracket. Secure the spring(s) to the center bearing bracket with (2) 3/8"-16 x 1-1/2" hex head bolts and 3/8"-16 nuts.

IMPORTANT: SPRINGS UNDER TENSION CAN BE DANGEROUS.

IMPORTANT: THE SPRING WARNING TAG(S) SUPPLIED MUST BE SECURELY ATTACHED TO THE STATIONARY SPRING CONE IN PLAIN VIEW. SHOULD A REPLACEMENT SPRING WARNING TAG BE REQUIRED, CONTACT WAYNE-DALTON CORP. FOR FREE REPLACEMENTS.



17

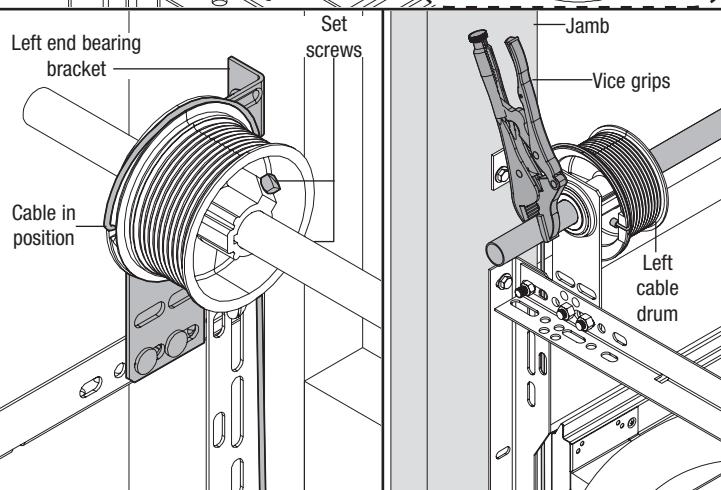
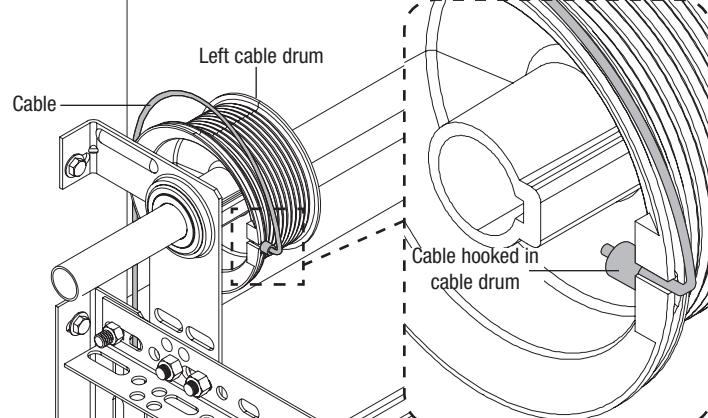
Counterbalance Cables

Tools Needed:

- Vice Grips
- 3/8" Wrench
- Step Ladder

Thread the counterbalance cables around the back side of the left cable drum and verify that there is no cable obstructions. Hook the cables into the drums. Slide the left hand cable drum against the left hand end bearing bracket and tighten the set screws in the drum to 14-15 ft. Lbs. of torque (Once set screws contact the tube, tighten screws one full turn). Rotate the left hand drum and torsion tube until cable is taut. Attach vice grips to torsion tube and brace vice grips against jamb to keep cable taut. Slide the right hand cable drum against the right hand end bearing bracket and rotate drum until cable is taut. Tighten set screws in right hand cable drum to 14-15 ft. Lbs. of torque (Once set screws contact the tube, tighten screws one full turn).

IMPORTANT: CHECK EACH CABLE, MAKING SURE BOTH ARE SEATED PROPERLY ON THE CABLE DRUMS AND HAVE EQUAL CABLE TENSION.



18

Securing Door for Spring Winding

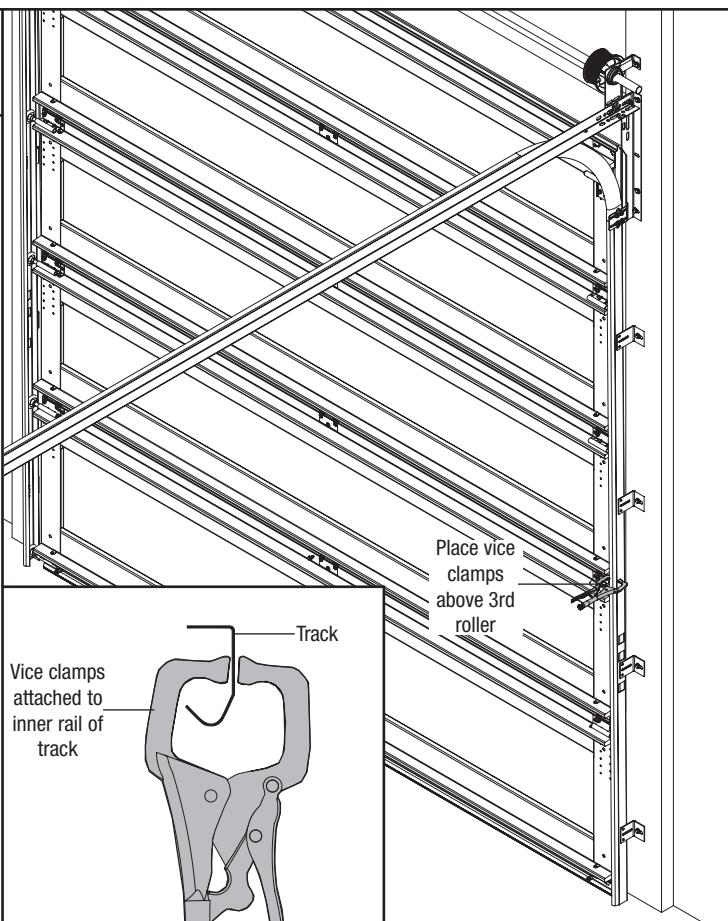
Tools Needed:
(2) Vice Clamps

Place vice clamps onto both vertical tracks just above the third roller. This is to prevent the garage door from raising while winding counterbalance springs.

WARNING

FAILURE TO PLACE VICE CLAMPS ONTO VERTICAL TRACK CAN ALLOW DOOR TO RAISE AND CAUSE SEVERE OR FATAL INJURY.

IMPORTANT: DO NOT USE IMPACT GUN TO WIND SPRING(S).



19

Winding Torsion Spring(s)

Tools Needed:
3/8" Wrench
Step Ladder
Approved Winding Bars

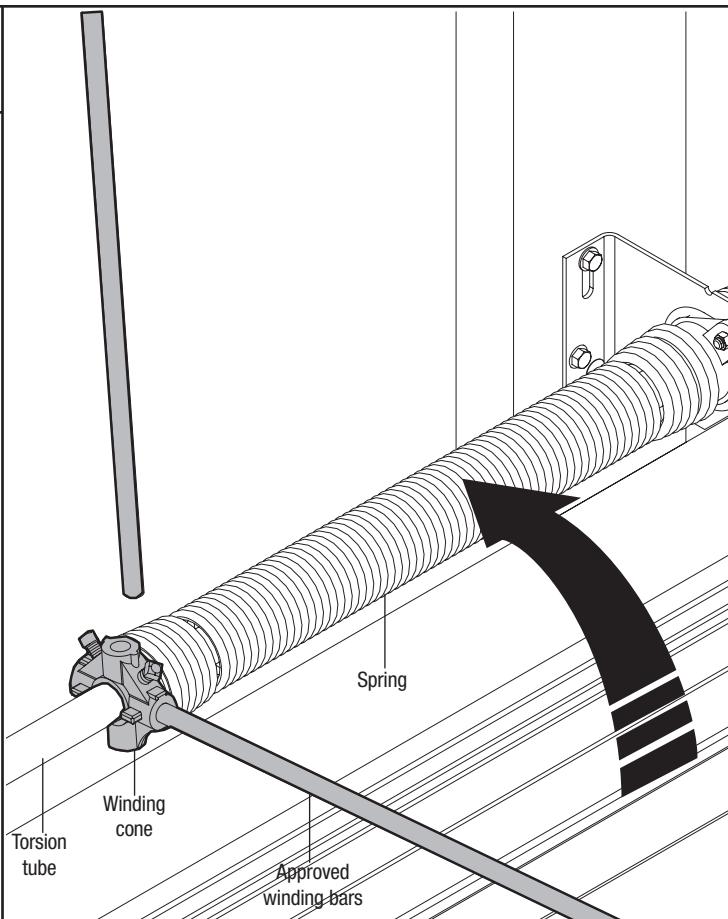
Position a ladder slightly to the side of spring so that the winding cone is easily accessible, yet your body is not in direct line with the winding bars. Check the label attached to the spring warning tag for the required number of complete turns to balance your door.

9'0" Door height = Approx. 9-5/8 Turns

WARNING

PRIOR TO WINDING OR MAKING ADJUSTMENTS TO THE SPRINGS, ENSURE YOU'RE WINDING IN THE PROPER DIRECTION AS STATED IN THE INSTALLATION INSTRUCTIONS. OTHERWISE, THE SPRING FITTINGS MAY RELEASE FROM SPRING IF NOT WOUND IN THE PROPER DIRECTION AND COULD RESULT IN SEVERE OR FATAL INJURY.

Alternately inserting the winding bars into the holes of the spring's winding cone, rotate the winding cone upward toward ceiling, 1/4 turn at a time, until the required number of complete turns for your door height is achieved. As the last 1/4 turn is achieved, securely hold winding bar while tightening both set screws in winding cone to 14-15 ft. lbs. of torque (Once set screws contact the tube, tighten screws one full turn).

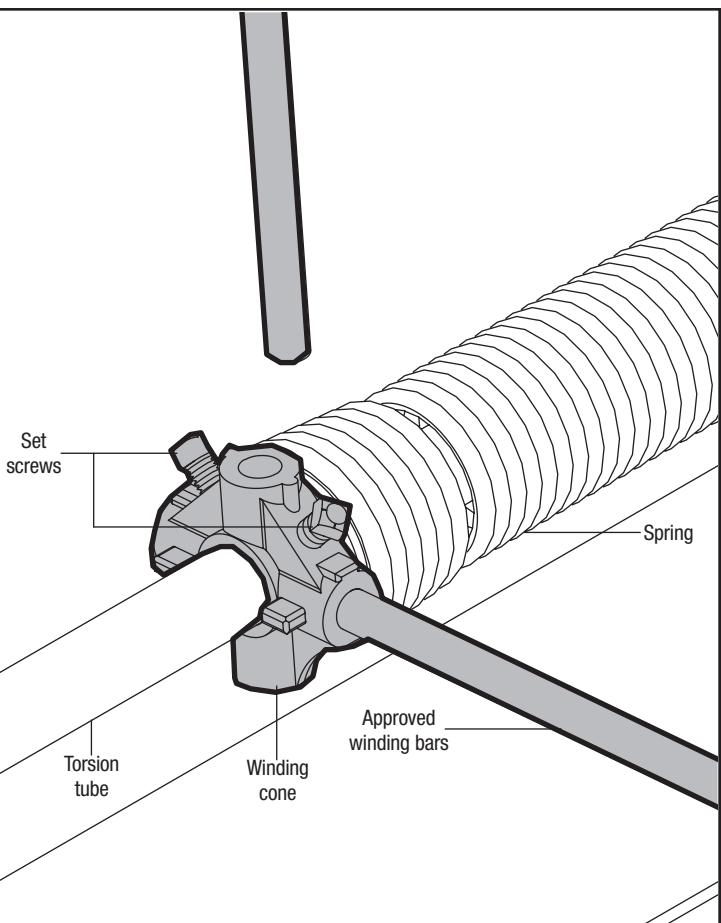


Winding Torsion Spring(s) Continued...

Carefully remove winding bar from winding cone. Repeat for the opposite spring. While holding the door down, to prevent it from rising unexpectedly, in the event the spring(s) were overwound, carefully remove the vice grips from the torsion tube and the vertical tracks.

IMPORTANT: CAUTIOUSLY REMOVE VICE CLAMPS AND VICE GRIPS FROM THE TORSION TUBE AND VERTICAL TRACKS.

Adjustments to the required from the number of turns stated may be necessary. If door raises off floor under spring tension alone, Reduce spring tension until door rests on the floor. If the door is hard to raise or drifts down on its own, add spring tension. An unbalanced door such as this can cause garage door opener operation problems.



20

Rear Support

Tools Needed:
Ratchet Wrench
1/2" Socket
1/2" Wrench
(2) Vice Clamps

WARNING

KEEP HORIZONTAL TRACK PARALLEL AND WITHIN 3/4" MAXIMUM OF DOOR EDGE, OTHERWISE DOOR COULD FALL, RESULTING IN SEVERE DEATH OR INJURY.

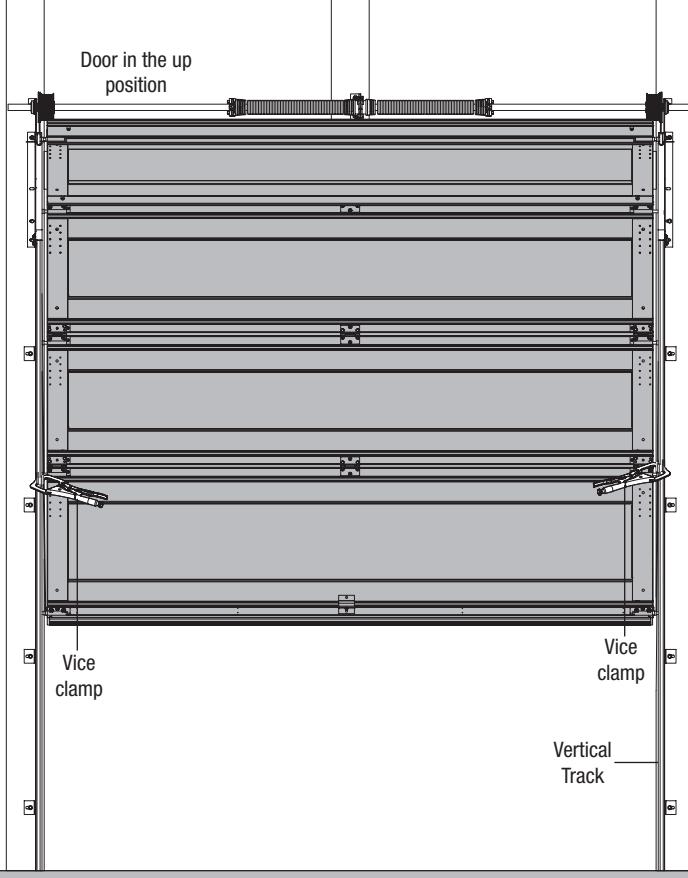
Raise the door until the top section and half of the next section are in a horizontal position. Do not raise door any further since rear of horizontal track is not yet supported.

WARNING

RAISING DOOR FURTHER HERE CAN RESULT IN DOOR FALLING AND CAUSE SEVERE DEATH OR INJURY.

Clamp a pair of vice clamps on the vertical tracks just above the second roller on one side, just below the second roller on the other side. This will prevent the door from raising or lowering while installing the rear support.

Using perforated angle, 5/16" x 1-5/8" hex head lag screws and 5/16" bolts with nuts (may not be supplied), fabricate rear support for horizontal tracks. Attach horizontal tracks to the rear supports with 5/16"- 18 x 1-1/4" hex bolts and nuts (may not be supplied). Horizontal tracks must be level and parallel to door within 3/4" to 7/8" maximum of door edge.



Rear Support Continued...

IMPORTANT: DO NOT SUPPORT THE WEIGHT OF THE DOOR ON ANY PART OF THE HORIZONTAL TRACK HANGER THAT CANTILEVERS 4" OR MORE BEYOND A SOUND FRAMING MEMBER.

NOTE: If rear supports are to be installed over drywall, use 5/16" x 2" hex head lag screws, and make sure lag screws engaged solid structural lumber.

NOTE: 26" Angle must be attached to sound framing members and nails should not be used.

Adjust weather seal (if necessary) to both door jambs and header. (Temporarily attached in PREPARING The OPENING on page 6). Avoid pushing weather seal stop too tightly against face of door.

Now, lift door and check its balance. Adjust, if door lifts by itself (hard to pull down) or if door is difficult to lift (easy to pull down).

NOTE: Windows will cause the top section to be significantly heavier than the remaining sections. Wayne-Dalton attempts to balance the door at the top and bottom. To prevent any sudden door acceleration between the top and bottom, we recommend motor operating all doors with windows. Doors with windows in the top section should not be manually operated.

⚠️ WARNING

PRIOR TO WINDING OR MAKING ADJUSTMENTS TO THE SPRINGS, ENSURE YOU'RE WINDING IN THE PROPER DIRECTION AS STATED IN THE INSTALLATION INSTRUCTIONS. OTHERWISE, THE SPRING FITTINGS MAY RELEASE FROM SPRING IF NOT WOUND IN THE PROPER DIRECTION AND COULD RESULT IN SEVERE OR FATAL INJURY.

To adjust spring tension, fully close door. Apply vice grips to track above third roller. Insert a winding bar into the winding cone. On single spring doors, cable tension must be maintained by placing vice grips on torsion tube before loosening set screws in the winding cone. Push upward on the winding bar while carefully loosening the set screws in the winding cone.

⚠️ WARNING

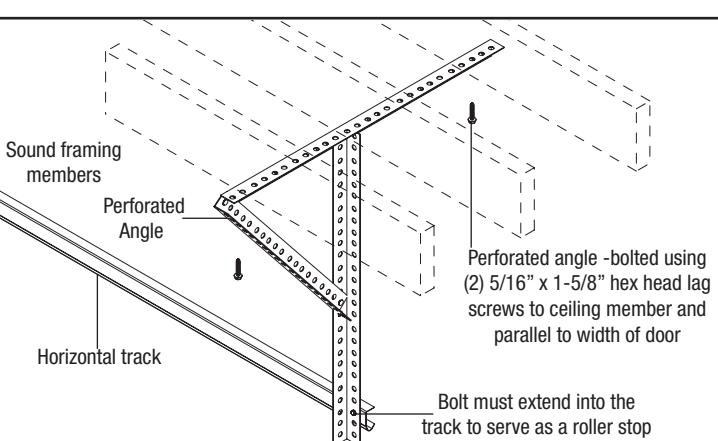
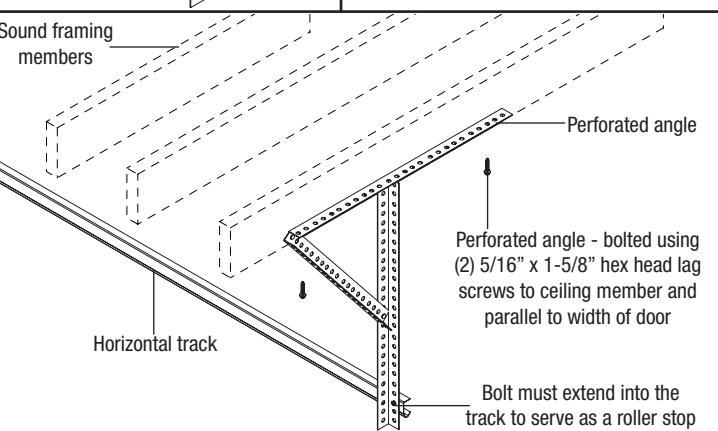
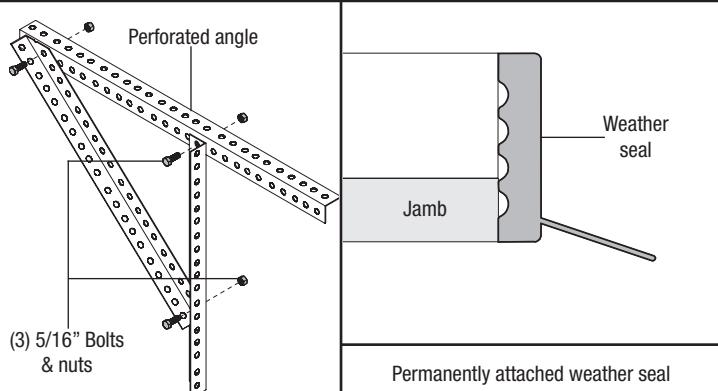
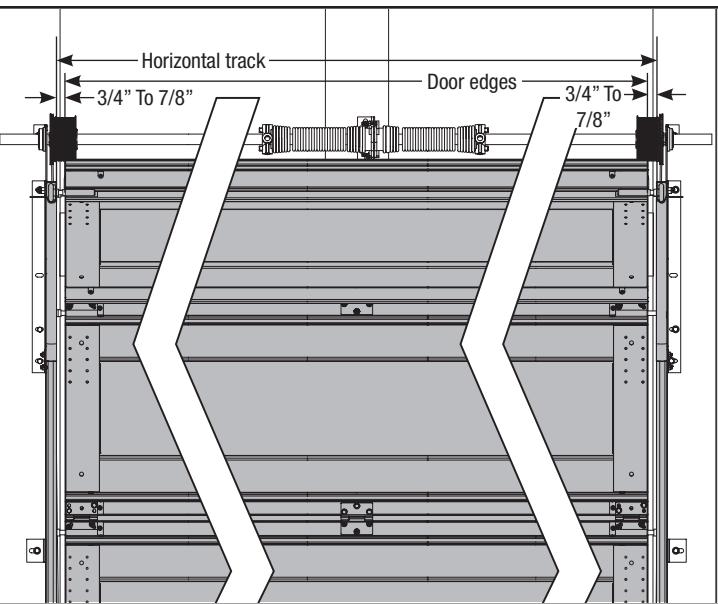
BE PREPARED TO SUPPORT THE FULL FORCE OF THE TORSION SPRING ONCE THE SET SCREWS ARE LOOSE.

Carefully adjust spring tension 1/4 turn. Retighten both set screws in the winding cone and repeat for the other side. Recheck door balance. DO NOT ADJUST MORE THAN 1/2 TURN FROM THE RECOMMENDED NUMBER OF TURNS.

If the door still does not operate easily, lower the door into the closed position, UNWIND THE SPRING(S) FULLY (Refer to "P1" on page 5 "Removing an old door and recheck the following items:

- 1.) Check the door for level.
- 2.) Check the torsion tube for level.
- 3.) Check the track spacing.
- 4.) Check the counterbalance cables for equal tension.
- 5.) Check the track for potential obstruction of the rollers.
- 6.) Clamp locking pliers onto track and rewind springs.

IMPORTANT: IF DOOR STILL DOES NOT OPERATE PROPERLY, THEN CONTACT A TRAINED DOOR SYSTEM TECHNICIAN.





Side Lock

Tools Needed:

Power Drill

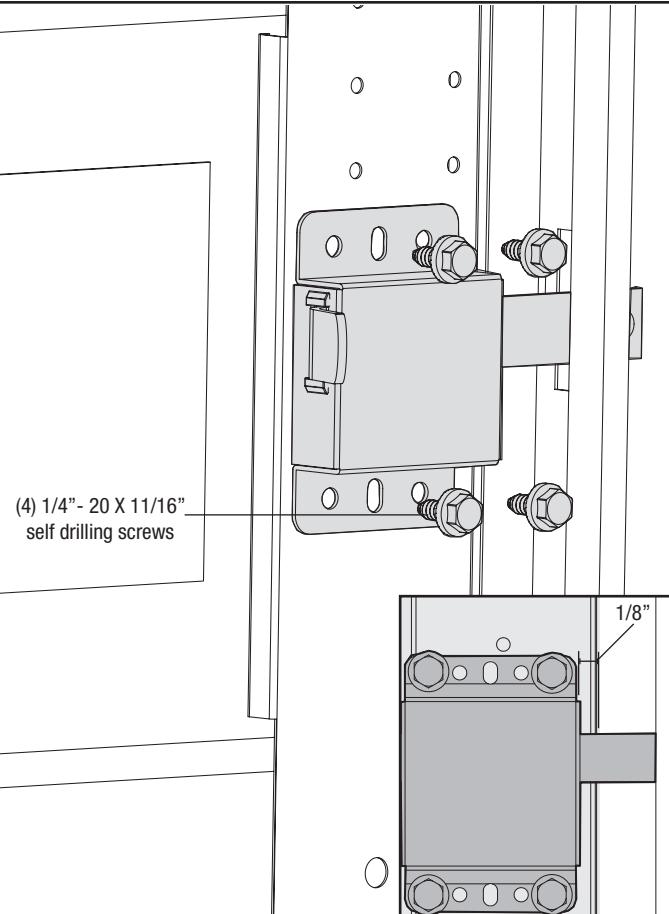
7/16" Socket Driver

Tape Measure

Install the side lock on the second section of the door. Secure the lock to the section with (4) 1/4"-20 x 11/16" self drilling screws. Square the lock assembly with the door section, and align with the square hole in the vertical track. The side lock should be spaced approximately 1/8" from the section edge.

IMPORTANT: SIDE LOCKS MUST BE REMOVED OR MADE INOPERATIVE IN THE UNLOCKED POSITION IF AN OPERATOR IS INSTALLED ON THE DOOR.

NOTE: After completing this step, continue with Step 6 on page 10.



Pull Rope

Tools Needed:

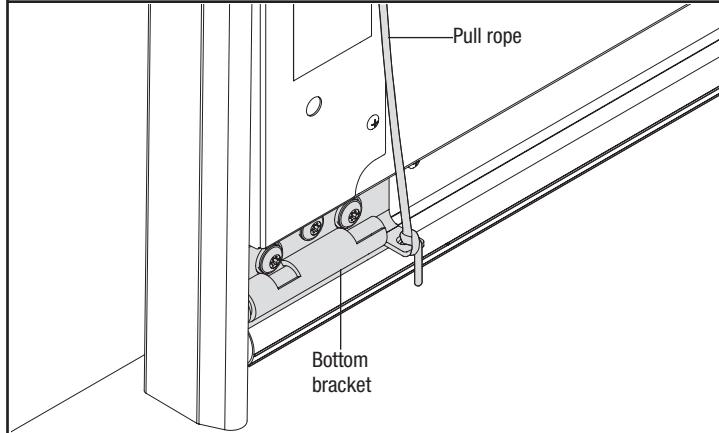
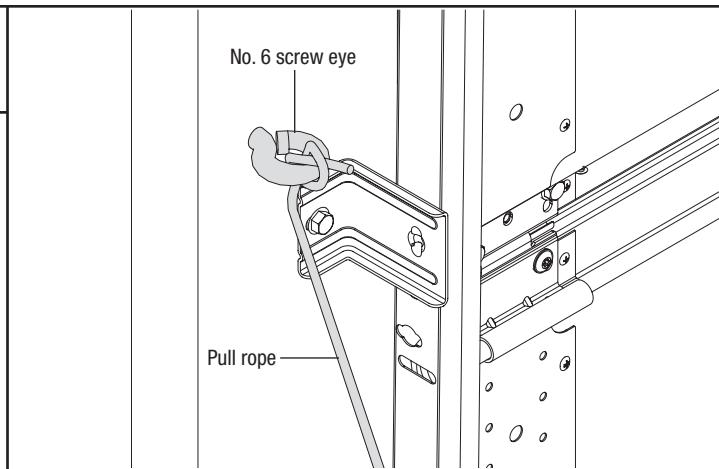
Power Drill

Drill Bit

WARNING

DO NOT INSTALL PULL ROPES ON DOORS WITH ELECTRIC OPERATORS. CHILDREN MAY BECOME ENTANGLED IN THE ROPE CAUSING SEVERE OR FATAL INJURY.

Pilot drill the location for the No. 6 screw eye. Screw the No. 6 screw eye into the wood jamb approximately 48" to 50" (1220 to 1270 mm) from the floor. Tie the pull rope to the screw eye and to the bottom bracket as shown.



	<h2>Trolley Operator</h2>	
	<p>WARNING</p> <p>OPERATOR MUST BE TESTED AT TIME OF INSTALLATION AND MONTHLY THEREAFTER AS DESCRIBED IN YOUR INSTALLATION INSTRUCTIONS AND OWNER'S MANUAL, TO ENSURE THAT DOOR SAFETY FEATURES FUNCTION. FAILURE TO TEST OR MAKE ANY NECESSARY ADJUSTMENTS OR REPAIRS, CAN RESULT IN SEVERE OR FATAL INJURY.</p> <ol style="list-style-type: none"> 1. Install operator rail 1/2" to 1-1/2" (13 - 38 mm) above high arc of top section of the door. 2. Mount operator to ceiling so that 1" to 1-1/2" (25 - 38 mm) clearance is maintained between trolley rail and top section when door is fully open (trolley rail will slope down towards rear). 3. Attach door arm to operator bracket with clevis and cotter pin. 4. Attach operator rail to a suitable mounting surface (2" x 6") lumber minimum. 5. Attach operator to ceiling using perforated angles. <p>IMPORTANT: ANGLES MUST BE SECURELY ATTACHED TO SOUND FRAMING MEMBER(S).</p>	

	<h2>Cleaning</h2>	
	<p>Cleaning Your Garage Door</p> <p>IMPORTANT: DO NOT USE A PRESSURE WASHER ON YOUR GARAGE DOOR!</p> <p>While factory-applied finishes on garage doors are durable, it is desirable to clean them on a routine basis. Some discoloration of the finish may occur when a door has been exposed to dirt-laden atmosphere for a period of time. Slight chalking may also occur as a result of direct exposure to sunlight.</p> <p>Cleaning the door will generally restore the appearance of the finish. To maintain an aesthetically pleasing finish of the garage door, a periodic washing of the garage door is recommended.</p> <p>The following cleaning solution is recommended: A mild detergent solution consisting of one cup detergent (with less than 0.5% phosphate) dissolved into five gallons of warm water will aid in the removal of most dirt.</p> <p>NOTE: The use of detergents containing greater than 0.5% phosphate is not recommended for use in general cleaning of garage doors.</p> <p>NOTE: Be sure to clean behind weather stripping on both sides and top of door.</p> <p>CAUTION: NEVER MIX CLEANSERS OR DETERGENTS WITH BLEACH.</p> <p>GLASS CLEANING INSTRUCTIONS Clean with a mild detergent solution (same as above) and a soft cloth. After cleaning, rinse thoroughly.</p> <p>ACRYLIC CLEANING INSTRUCTIONS Clean acrylic glazing with nonabrasive soap or detergent and plenty of water. Use your bare hands to feel and dislodge any caked on particles. A soft, grit-free cloth, sponge or chamois may be used to wipe the surface. Do not use hard or rough cloths that will scratch the acrylic glazing. Dry glazing with a clean damp chamois.</p> <p>NOTE: DO NOT USE any window cleaning fluids, scouring compounds, gritty cloths or solvent-based cleaners of any kind.</p>	

Painting

Painting Instructions For Steel and Wood Doors.

Steel (Surface Preparation for Painting)

Wax on the surface must be removed or paint peeling/flaking will result. To remove this wax, it will be necessary to lightly scuff the surface with a fine steel wool pad, saturated with soapy water. A final wipe and rinse should be done with clean water only, to remove any loose particles and any soapy film residue.

Surface scratches, which have not exposed the metal substrate, can be lightly buffed or sanded with 0000 steel wool or No. 400 sand paper to create a smoother surface. Care must be taken to not expose the substrate under the paint. Once the substrate is exposed, the likelihood for rusting is greatly increased.

If substrate is exposed, it must be treated to prevent rust from forming. Sand the exposed area lightly and paint with a high quality metal primer, specifically intended for galvanized surfaces, to protect the area from corrosion. Follow the drying time on primer can label before applying topcoat. The surface of the factory-applied finish, that is being painted, must not be too smooth, or the paint will not adhere to it. It is advisable to test in an inconspicuous area, to evaluate adhesion. If poor adhesion is observed, surface preparation for painting the factory-applied finish, must be repeated until desired results are achieved. Again, care must be taken to not expose the substrate under the paint.

Steel (Painting)

After surface has been properly prepared, it must be allowed to dry thoroughly, then coated immediately with a premium quality latex house paint. Follow paint label directions explicitly. Oil base or solvent base paints are not recommended. Please note that if substrate is exposed and not properly primed, painting with latex paint may cause accelerated rusting of the steel in the exposed area.

NOTES:

1. Repainting of finish painted steel doors cannot be warranted, as this condition is totally beyond the door manufacturer's control.
2. Consult a professional coatings contractor if in doubt about any of the above directions.
3. Follow directions explicitly on the paint container labels for proper applications of coatings and disposal of containers. Pay particular attention to acceptable weather and temperature conditions in which to paint.

Wood (Preparation and Painting)

These instructions apply to all Wood Doors produced and sold by Wayne-Dalton Corp. The exterior surfaces, as well as all edges must be properly painted and maintained if satisfactory performance is to be achieved. The purpose for painting is to both protect and beautify the substrates. These requirements for finishing are intended to achieve both functions for reasonable service life of wood doors. Wood doors must be completely finished prior to installation, to ensure that the interior and exterior surfaces, as well as all edges of the doors are properly protected against moisture or other contaminants. Wood doors, in a non-finished condition, must not be transported or stored where the wood surfaces can be exposed to moisture or other contaminants.

Wood (Surface Preparation)

All surfaces must be clean, free of dust and dirt and any other contamination.

Wood (Painting)

Using painter's tape, tape off all metal surfaces. A premium quality latex house based finish paint is recommended for use over the factory latex based primer. Painting the wood surfaces with at least 2 coats of finish paint over the primer. Follow paint manufacturer's label directions completely for all coatings. Once finished, remove painter's tape and touch up where necessary.

Wood (Maintenance and Refinishing)

Yearly inspection of all the wood surfaces of the garage door(s) will reveal the extent of weathering and the need for refinishing. When the finish becomes eroded or thin, clean and prime the areas of deterioration. Follow up with a complete refinishing of the door(s), according to the above directions, as well as the manufacturer's label directions. Protecting the door(s) from prolonged exposure to moisture and sunlight is vital in extending the service life of your garage door(s).

Thank you for your purchase

Covered by one or more of the following Patents; 5,408,724; 5,409,051; 5,419,010; 5,495,640; 5,522,446; 5,562,141; 5,566,740; 5,568,672; 5,718,533; 6,019,269; 6,089,304; 6,644,378; 6,374,567; 6,561,256; 6,527,037; 6,640,872; 6,672,362; 6,725,898; 6,843,300; 6,915,573; 6,951,237; 7,014,386; 7,036,548; 7,059,380; 7,121,317; 7,128,123; 7,134,471; 7,134,472; 7,219,392; 7,254,868. Canadian: 2,384,936; 2,477,445; 2,495,175; 2,507,590; 2,530,701; 2,530,74; 2, 2,532,824. Other US and Foreign Patents pending

Please Do Not Return This Product To The Store

Contact your local Wayne-Dalton dealer. To find your local Wayne-Dalton dealer, refer to your local yellow pages business listings or go to the **Find a Dealer** section online at www.wayne-dalton.com

Lifetime Limited Warranty Model 6100

Subject to the terms and conditions contained in this Lifetime Limited Warranty, Wayne-Dalton Corp. ("Manufacturer") warrants the steel sections of the door, which is described at the top of this page, for as long as you own the door against:

- (i) The door becoming inoperable due to rust-through of the steel skin from the core of the door section, due to cracking, splitting, or other deterioration of the steel skin, or due to structural failure caused by separation or degradation of the foam insulation.
- (ii) Peeling of the original paint on the door as a result of a defect in the original paint or in the application of the original paint coating, in cases where the door sections and the original paint: (a) have not been subjected to adverse atmospheric conditions or contaminates (such as salt water or other marine environment, or to toxic or abrasive substances, including those in the air); (b) have been maintained in compliance with Manufacturer's recommendations; and (c) have not been subject to physical abrasion, impacted by a hard object, or punctured (including without limitation "paint rub" occurring in metal to metal contact and movement).

The Manufacturer warrants the factory applied wood overlay of the above-described door, against defects in material and workmanship for a period of **ONE (1) YEAR** from the date of installation, provided all exterior surfaces and edges of the wood overlay are properly painted according to Wayne-Dalton Corp.'s Maintenance and Painting Instructions found in your Installations Instructions and Owner's Manual. Bowing, checking and/or cracking of the door overlay components is not considered a defect, but is an uncontrollable characteristic of wood.

The Manufacturer warrants the garage door hardware (except springs) and the tracks of the above-described door, for as long as you own the door, against defects in material and workmanship, subject to all the terms and conditions below.

The Manufacturer warrants those component parts of the door not covered by the preceding provisions of this Lifetime Limited Warranty against defects in material and workmanship for a period of **ONE (1) YEAR** from the date of installation.

The Manufacturer warrants the factory-applied finish and the factory attached Decatrim against fading and cosmetic changes from the time of installation for **TWO (2) YEARS**. If the sectional steel portion of door is re-stained or re-painted, the **TWO (2) YEARS** warranty for the factory-applied finish is void. The Model 6100 factory attached Decatrim is warranted against warping, peeling, chalking, or delamination from the time of installation for **TWO (2) YEARS**.

After a period of **TWENTY (20) YEARS**, from time of installation, replacement of Lifetime Limited Warranty materials will be pro-rated at 50 per cent of Manufacturer's published list pricing at time of claim, and you must pay this amount.

This Limited Warranty is extended only to the person who purchased the product and continues to own the premises (where the door is installed) as his/her primary residence ("Buyer"). This Limited Warranty does not apply to residences other than primary, or to commercial or industrial installations, or to installations on rental property (even when used by a tenant as a residence). This Limited Warranty is not transferable to any other person (even when the premises is sold), nor does it extend benefits to any other person. As a result this Limited Warranty does NOT apply to any person who purchases the product from someone other than an authorized Wayne-Dalton dealer or distributor.

The Manufacturer will not be responsible for any damage attributable to improper storage, improper installation, or any alteration of the door or its components, abuse, damage from corrosive fumes or substances, salt spray or saltwater air, fire, Acts of God, failure to properly maintain the door, or attempt to use the door, its components or related products for other than its intended purpose and its customary usage. This Limited Warranty does not cover ordinary wear. This Limited Warranty will be voided if the original finish is painted over, unless Manufacturer's preparation and painting instructions are followed explicitly. This Limited Warranty will be voided if any holes are drilled into the door, other than those specified by the Manufacturer.

THIS LIMITED WARRANTY COVERS A CONSUMER PRODUCT AS DEFINED BY THE MAGNUSON-MOSS ACT. NO WARRANTIES, EXPRESS OR IMPLIED (INCLUDING BUT NOT LIMITED TO THE WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) WILL EXTEND BEYOND THE TIME PERIOD SET FORTH IN **UNDERSCORED BOLD FACE TYPE** IN THIS LIMITED WARRANTY, ABOVE.

- Some States do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

Any claim under this Limited Warranty must be made in writing, within the applicable warranty period, to the dealer from which the product was purchased. Unless the dealer is no longer in business, a written claim to the Manufacturer will be the same as if no claim had been made at all.

At the Manufacturer's option, a service representative may inspect the product on site, or Buyer may be required to return the product to the Manufacturer at Buyer's expense. Buyer agrees to cooperate with any representative of the Manufacturer and to give such representative full access to the product with the claimed defect and full access to the location of its installation.

If the Manufacturer determines that the claim is valid under the terms of this Limited Warranty, the Manufacturer will repair or replace the defective product. The decision about the manner in which the defect will be remedied will be at the discretion of the Manufacturer, subject to applicable law. THE REMEDY WILL COVER ONLY MATERIAL. THIS LIMITED WARRANTY DOES NOT COVER OTHER CHARGES, SUCH AS FIELD SERVICE LABOR FOR REMOVAL, INSTALLATION, PAINTING, SHIPPING, ETC.

Any repairs or replacements arranged by Manufacturer will be covered by (and subject to) the terms, conditions, limitations and exceptions of this Limited Warranty; provided, however, that the installation date for the repaired or replaced product will be deemed to be the date the original product was installed, and this Limited Warranty will expire at the same time as if there had been no defect. If a claim under this Limited Warranty is resolved in a manner other than described in the immediately preceding paragraph, then neither this Limited Warranty nor any other warranty from the Manufacturer will cover the repaired or replaced portion of the product.

THE REMEDIES FOR THE BUYER DESCRIBED IN THIS LIMITED WARRANTY ARE EXCLUSIVE and take the place of any other remedy. The liability of the Manufacturer, whether in contract or tort, under warranty, product liability, or otherwise, will not go beyond the Manufacturer's obligation to repair or replace, at its option, as described above. THE MANUFACTURER WILL NOT UNDER ANY CIRCUMSTANCES BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, including (but not limited to) damage or loss of other property or equipment, personal injury, loss of profits or revenues, business or service interruptions, cost of capital, cost of purchase or replacement of other goods, or claims of third parties for any of the foregoing.

- Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

No employee, distributor, dealer, representative, or other person has the authority to modify any term or condition contained in this Limited Warranty or to grant any other warranty on behalf of or binding on the Manufacturer, and anyone's attempt to do so will be null and void.

Buyer should be prepared to verify the date of installation to the satisfaction of the Manufacturer.

The rights and obligations of the Manufacturer and Buyer under this Limited Warranty will be governed by the laws of the State of Ohio, USA, to the extent permitted by law.

- This Limited Warranty gives you specific legal rights and you may also have other rights, which may vary from State to State.